

RE: Update on EPA Stakeholder Workshop Minnucci, Chris A. to: Melissa Weitz

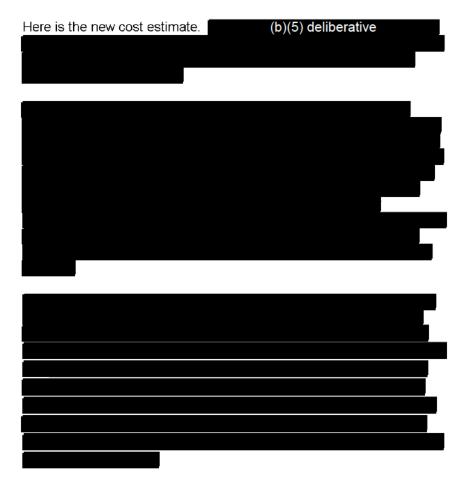
Cc: "Martin, Alina D."

08/01/2012 09:43 AM

History:

This message has been forwarded.

Melissa,



Also, please let us know if you would like to talk to Alina re what the different folks on her staff would be doing. I've talked to her about it, and she can explain all this in detail.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Mon 7/30/2012 2:48 PM

To: Minnucci, Chris A.

Subject: RE: Update on EPA Stakeholder Workshop

Can we do 11 instead?

"Minnucci, Chris A." ---07/30/2012 11:32:00 AM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 07/30/2012 11:32 AM

Subject: RE: Update on EPA Stakeholder Workshop

Melissa,

Yes, how about if I call you at 10 AM?

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Mon 7/30/2012 10:28 AM

To: Minnucci, Chris A.

Subject: RE: Update on EPA Stakeholder Workshop

Hi Chris,

I'm free at any time tomorrow. Do you have availability then?

Thanks, Melissa

"Minnucci, Chris A." ---07/27/2012 03:51:31 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 07/27/2012 03:51 PM

Subject: RE: Update on EPA Stakeholder Workshop

Melissa,

Yes, it would be good to have a check in call on all this. My schedule is pretty open, so just let me know when would be a good time for you.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 7/25/2012 6:00 PM

To: Minnucci, Chris A.

Cc: Walsh, Kenneth J.; Richards, Richard Y.; Kidman, Timothy M.

Subject: Update on EPA Stakeholder Workshop

Just wanted to let you know that our website on the Stakeholder Workshop is now up and running:

http://www.epa.gov/climatechange/ghgemissions/Sept2012stakeholderworkshop.html

We've made calls to many stakeholders and there is a lot of interest.

Some key dates:

August 8th. Deadline for stakeholders wishing to make presentations to provide general information on those presentations.

Deadline for stakeholder comments on the agenda

At this point, we'll have a better sense on revisions to the agenda, and additional areas for investigation for the memos

August 21st Deadline for stakeholders to drafts of all presentations.

September 6th Deadline for final stakeholder presentations

September 13-14 Stakeholder workshop

We will need the background memos ready to distribute to stakeholders the week before the workshop. We will only need memos on the production sector from SAIC.

Completions/workovers, liquids unloading, and other production.

I'm going to be out of the office August 27 to September 10, and I'd like to have things in pretty good shape before I go. Near-final drafts by the 20th of August would be great.

I owe you comments on completions/workovers and those should be ready tomorrow or Friday.

What is the status of the liquids unloading memo?

Let's check in on this at some point next week. Melissa

"Minnucci, Chris A." ---07/17/2012 05:42:25 PM---Yes, this news brings us some considerable relief!

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Walsh, Kenneth J." < KENNETH.J.WALSH@saic.com >, "Richards, Richard Y."

<RICHARD.Y.RICHARDS@saic.com>, "Kidman, Timothy M."

<TIMOTHY.M.KIDMAN@saic.com>

Date: 07/17/2012 05:42 PM

Subject: RE: EPA Stakeholder Workshop

Yes, this news brings us some considerable relief!

thanks Melissa, Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tue 7/17/2012 5:38 PM

To: Minnucci, Chris A.

Cc: Walsh, Kenneth J.; Richards, Richard Y.; Kidman, Timothy M.

Subject: RE: EPA Stakeholder Workshop

Thanks! I'll look at these soon.

Chris knows this already, but for the others, we're moving the workshop date back to September 13-14 (though that may change too). So, we'll be able to be less rushed on this which will be nice since there are a lot of pieces!

Melissa

"Minnucci, Chris A." ---07/17/2012 05:33:26 PM---Melissa.

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Richards, Richard Y." <RICHARD.Y.RICHARDS@saic.com>, "Walsh, Kenneth J."

<KENNETH.J.WALSH@saic.com>, "Kidman, Timothy M."

<TIMOTHY.M.KIDMAN@saic.com>

Date: 07/17/2012 05:33 PM

Subject: RE: EPA Stakeholder Workshop

Melissa,

As you requested attached please find two memos, one summarizing comments received on the Inventory and one summarizing comments on the NSPS that were related to the Inventory. We look forward to receiving and addressing your comments on these two memos.

In addition, I am including an updated version of the option paper on well completions and workovers. While actionable suggestions (as opposed to criticisms) were rarely offered in the comments we summarized, we did find a couple of ideas in the Inventory comments that appeared workable, and so we expanded the Completion and Workover memo to include these two ideas. (b)(5) deliberative

(b)(5) deliberative

The new options, plus some other changes, are all in track changes so you can see the differences between this and the previous version of the options paper. We also added some additional details in other parts of the paper (also in track changes) and we added some comments with some questions we had for EPA on specific issues.

At this point we are planning to continue working on the completions/workover options paper, but please let us know if there are other assignments you would like us to pursue. With the completion of the two comment summary memos we now have some availability for other work.

thanks, Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tue 7/17/2012 4:18 PM

To: Martin, Alina D. Cc: Minnucci, Chris A.

Subject: re: EPA Stakeholder Workshop

Hello,

Sorry I wasn't able to get back to you soon. We've decided to host the main website at EPA.

We'll need you to develop just the registration site, following the model you sent me. For our event, we'll only need information down through "Indicate affiliation type." Two additional data piece to collect are 1) whether they are attending August 17, August 18 or both (maybe we can do this with check boxes?) and 2) whether they will attend in person or via webinar.

This is the text for the top of the page:

"Stakeholder Workshop on Natural Gas in the Inventory of U.S. Greenhouse Gas Emissions and Sinks (August 16 and 17, 2012)

Washington DC and webinar. Details will be posted soon."

If we could get the draft registration website ready tomorrow am (if that is possible! very sorry for the QTA) that would be great. Please give me an estimate of when this can be ready. We are hoping to post the web site tomorrow afternoon, though we could potentially post it tomorrow and note that the registration piece is coming soon.

Also, we will need a cost estimate for the workshop, as soon as possible. Please let me know what information you need to complete the cost estimate.

Thank you! Melissa

---- Forwarded by Melissa Weitz/DC/USEPA/US on 07/17/2012 04:06 PM -----

From: "Martin, Alina D." <ALINA.D.MARTIN@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 07/12/2012 11:06 AM

Subject: RE: FW: EPA Stakeholder Workshop

Hi Melissa.

Here's a link to the workshop webpage for the annual Drinking Water Workshop. We create the content and EPA posts it on their site. Under Event Registration, you'll find the link to our StarCite/SeeUThere registration system. Click on the link to view the registration form. If you'd like you can even go ahead and register, and then I'll cancel out your registration. That would enable you to see how the process works and see the registration confirmation email.

http://www.epa.gov/nrmrl/events/event09112012.html

If you don't put the bulk of the content on the EPA site, then we can still include workshop details directly on the registration site:

https://www.seeuthere.com/rsvp/invitation/invitation.asp?donotrefresh=1&sutGuid=41102. The template design is somewhat limited but it's very simple to get the content posted and online quickly. Then it can be updated later on as needed. Use of this system is complimentary for our customers.

Alina

Alina Martin | SAIC

Section Manager | Energy, Environment & Infrastructure Solutions office: 858.312.8983 | mobile: 571.244.1582 | email: martinali@saic.com

Please consider the environment before printing this email.

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wednesday, July 11, 2012 3:03 PM

To: Martin, Alina D. Cc: Minnucci, Chris A.

Subject: RE: FW: EPA Stakeholder Workshop

I tried to contact Herman Salley. Please go ahead and get in touch with your contacts if you have a chance.

"Martin, Alina D." ---07/11/2012 02:02:22 PM---Yes, 10 AM tomorrow works for me.

From: "Martin, Alina D." <ALINA.D.MARTIN@saic.com>

To: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>, Melissa Weitz/DC/USEPA/US@EPA

Date: 07/11/2012 02:02 PM

Subject: RE: FW: EPA Stakeholder Workshop

Yes, 10 AM tomorrow works for me.

Call-in Number:

(b)(6) privacy

Passcode: (b)(6) privacy

Melissa - Thanks for the information about the workshop. Yes, I am very familiar with running meetings at the Potomac Yard conference center. I do about 2-3 meetings per year there and know the facility staff. Who have you tried to contact to book the rooms?

Alina

Alina Martin | SAIC

Section Manager | Energy, Environment & Infrastructure Solutions

office: 858.312.8983 | mobile: 571.244.1582 | email: martinali@saic.com

Please consider the environment before printing this email.

From: Minnucci, Chris A.

Sent: Wednesday, July 11, 2012 12:39 PM

To: Melissa Weitz Cc: Martin, Alina D.

Subject: RE: FW: EPA Stakeholder Workshop

10 AM works for me. Alina?

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 7/11/2012 12:35 PM

To: Minnucci, Chris A. Cc: Martin, Alina D.

Subject: RE: FW: EPA Stakeholder Workshop

Could we do 10 a.m. tomorrow?

If you have time to think about this in advance of the call tomorrow, we're going to want to discuss on the call:



More details on the workshop:



A very very rough draft of the agenda is attached below (this has not been reviewed by several key people at EPA, but my sense is the agenda will look like the attached).

Thanks! Melissa

(See attached file: Proposed Agenda for Stakeholder 7.10.docx)

"Minnucci, Chris A." ---07/11/2012 11:39:34 AM---Alina and Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: "Martin, Alina D." <ALINA.D.MARTIN@saic.com>, Melissa Weitz/DC/USEPA/US@EPA

Date: 07/11/2012 11:39 AM

Subject: RE: FW: EPA Stakeholder Workshop

Alina and Melissa,

Tomorrow would work better for me, although Friday from 10 to 11 would be a possibility.

Chris

From: Martin, Alina D.

Sent: Wed 7/11/2012 11:27 AM To: Minnucci, Chris A.; Melissa Weitz

Subject: RE: FW: EPA Stakeholder Workshop

Hi Melissa and Chris,

Unfortunately, my schedule is completely booked today with meetings. However, I'm available tomorrow any time after 10:00 am Eastern and on Friday, except for 11:00 am to noon Eastern. Would either of those days work for you? Once we finalize a date/time, I'll send out a conference line number.

Thanks, Alina Alina Martin | SAIC

Section Manager | Energy, Environment & Infrastructure Solutions

office: 858.312.8983 | mobile: 571.244.1582 | email: martinali@saic.com

Please consider the environment before printing this email.

From: Minnucci, Chris A.

Sent: Wednesday, July 11, 2012 10:42 AM

To: Melissa Weitz Cc: Martin, Alina D.

Subject: RE: FW: EPA Stakeholder Workshop

Melissa, yes I am free. Alina, do you have availability? Would you be able to set up a conference call for us if you do? Please let us know.

Thanks, Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 7/11/2012 10:09 AM

To: Minnucci, Chris A. Cc: Martin, Alina D.

Subject: Re: FW: EPA Stakeholder Workshop

Hi Chris,

Sorry I wasn't able to talk on Monday.

Are you free at all today? I am free anytime other than 2-3PM.

Please let me know your availability--thanks! Melissa

"Minnucci, Chris A." ---07/06/2012 04:36:27 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Martin, Alina D." <ALINA.D.MARTIN@saic.com>

Date: 07/06/2012 04:36 PM

Subject: FW: EPA Stakeholder Workshop

Melissa.

Alina Martin here at SAIC is the person you will want to talk to re the stakeholder conference. Please see her e-mail below and the attached brochure. Alina and I are available for a conference call anytime from 10 AM to 4:30 PM on Monday. Please let me know what time might work for you.

thanks, Chris

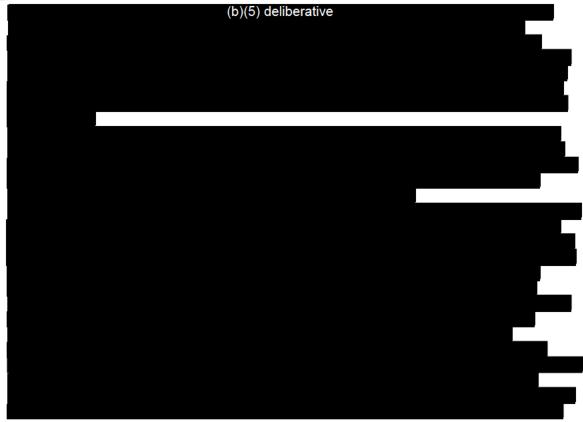
From: Martin, Alina D. Sent: Fri 7/6/2012 2:40 PM To: Minnucci, Chris A.

Subject: EPA Stakeholder Workshop

Hi Chris.

Thank you for contacting me about the potential need for conference/workshop support for an upcoming EPA meeting. As we discussed, my team has over 20 years of experience providing this exact type of support to EPA and I personally have been coordinating EPA conferences, workshops, forums, symposia and exhibitions for more than 12 years. Attached is a brochure that provides an overview of SAIC capabilities related to meeting support services.

In addition, I've included a few bullets from my resume below. We have supported many stakeholder workshops/conferences for EPA over the years and I can discuss that in more detail on Monday if needed.



On Monday, I am currently available any time after 10:00 a.m. Eastern Time.

Thanks, Alina

Alina Martin | SAIC

Section Manager | Energy, Environment & Infrastructure Solutions office: 858.312.8983 | mobile: 571.244.1582 | email: martinali@saic.com

Please consider the environment before printing this email.

[attachment "G10-0046_SAIC Conference Capabilities.pdf" deleted by Melissa Weitz/DC/USEPA/US] [attachment "ecblank.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "1C573884.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "Inventory Comments Memo_2.docx" deleted by Melissa Weitz/DC/USEPA/US] [attachment "NSPS issues with inventory 071712.docx" deleted by Melissa Weitz/DC/USEPA/US] [attachment "Completion Workover Memo_SAIC re-structure_v2.docx" deleted by Melissa Weitz/DC/USEPA/US] [attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "ecblank.gif" deleted by Melissa Weitz/DC/USEPA/US]

Melissa Weitz/DC/USEPA/US] graycol.gif ecblank.gif EPA Stakeholder Workshop Cost V2.xlsx



Accepted: liquids unloading Wed 08/01/2012 10:30 AM - 11:00 AM

No Location Information

Suzanne Waltzer	has accepted this	meeting invitati	ion		
Required:	Suzanne Waltzer/[OC/USEPA/US	@EPA		



Sources for Natural Gas Sector Emissions Richards, Richard Y. to: Melissa Weitz

Cc: "Minnucci, Chris A."

08/01/2012 01:56 PM

History:

This message has been forwarded.

Melissa,

For the production emissions sources other than completions, workovers, and liquids unloading, I think it may be useful to summarize the current methodologies and sources with equations and tables. I have attached an example for heaters (field separation equipment). If we have time on the 2PM call, we can look at this to see if you would like this approach.

Some of the sources listed in the spreadsheet appear to be unpublished memos. We will probably want to track down these memos to identify the original sources that would be useful to stakeholders.

Dick Richards | SAIC Senior Environmental Scientist | Climate Change Services Energy, Environment & Infrastructure Solutions office: 202.488.6606 | mobile: 703.424.5027

Please consider the environment before printing this email. (b)(5) deliberative

Sources.docx



Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review 🗎



08/01/2012 03:35 PM

Suzanne Waltzer/DC/USEPA/US From: Melissa Weitz/DC/USEPA/US@EPA.

History: This message has been forwarded.

Suzanne Waltzer to: Melissa Weitz

Looks great!

Sorry if we already discussed this but you planning to send to Suzie for a guick review and then Chris? Just let me know if you need my help with anything. Didnt want it to slip off my radar.

Thanks!

Melissa Weitz One more review (sorry! (b)(5) deliberative 08/01/2012 11:19:02 AM

Melissa Weitz/DC/USEPA/US From:

To: Suzanne Waltzer/DC/USEPA/US@EPA

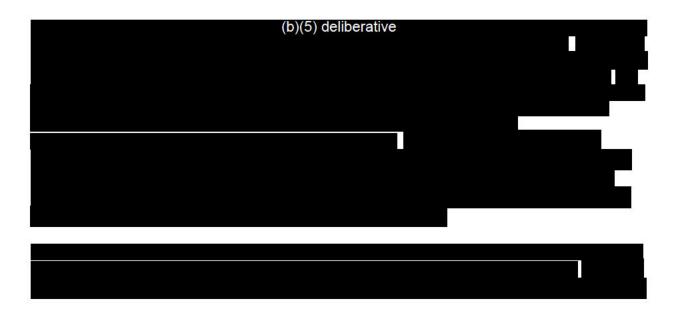
Date: 08/01/2012 11:19 AM

Subject: Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

One more review (sorry!

(b)(5) deliberative

Question: Industry recently released a comprehensive study relying on data from ten times the number of wells as the previous EPA estimate for methane emissions and found that EPA's emissions estimate in some instances were a factor of 2 too high and other studies have found overestimations of closer to 1400%. How long will it take for EPA to update its emissions inventory to reflect the more comprehensive data? How does the more comprehensive industry methane emissions data affect EPA's cost-effectiveness assertions in the oil and gas rule?



(b)(5) deliberative

Suzanne Waltzer Looks great! Just change (b)(5) deliberative 08/01/2012 11:05:15 AM

From: Suzanne Waltzer/DC/USEPA/US
To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/01/2012 11:05 AM

Subject: Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

Looks great! Just change

(b)(5) deliberative

? I am fine either way. Maybe a question for Suzie if you do

not have a preference either.

Thanks!

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

Melissa Weitz One more quick review-- (b)(5) deliberative 08/01/2012 10:54:38 AM

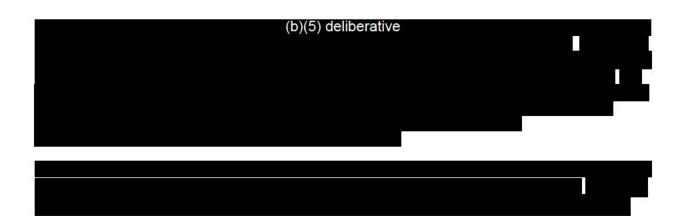
From: Melissa Weitz/DC/USEPA/US

To: Suzanne Waltzer/DC/USEPA/US@EPA

Date: 08/01/2012 10:54 AM

Subject: Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

One more quick review--



(b)(5) deliberative

Suzanne Waltzer I know this one is confusing. How about this? E... 08/01/2012 10:40:54 AM

From: Suzanne Waltzer/DC/USEPA/US
To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/01/2012 10:40 AM

Subject: Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

I know this one is confusing. How about this?



Melissa Weitz So, this? Sorry, I'm just very confused about thi... 07/31/2012 04:37:07 PM

From: Melissa Weitz/DC/USEPA/US

To: Suzanne Waltzer/DC/USEPA/US@EPA

Date: 07/31/2012 04:37 PM

Subject: Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

Melissa Weitz Re-reading it, I'm pretty sure the first sentence is... 07/31/2012 09:54:42 AM

From: Melissa Weitz/DC/USEPA/US

To: Suzanne Waltzer/DC/USEPA/US@EPA

Date: 07/31/2012 09:54 AM

Subject: Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

Re-reading it, I'm pretty sure the first sentence (b)(5) deliberative

Let me know your thoughts on this.

Question: Industry recently released a comprehensive study relying on data from ten times the number of wells as the previous EPA estimate for methane emissions and found that EPA's emissions estimate in some instances were a factor of 2 too high and other studies have found overestimations of closer to 1400%. How long will it take for EPA to update its emissions inventory to reflect the more comprehensive data? How does the more comprehensive industry methane emissions data affect EPA's cost-effectiveness assertions in the oil and gas rule?



From: Suzanne Waltzer/DC/USEPA/US
To: Melissa Weitz/DC/USEPA/US@EPA

Date: 07/27/2012 10:31 AM

Subject: Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

Hi Melissa,

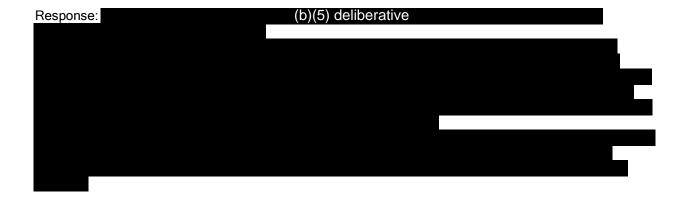
One quick overarching question/comment on our response - in reading the question, although not completely clear, I think they may be asking (b)(5) deliberative

If that is your impression as

well (and given it is not super clear), I think to cover our bases it may be best to organize by the following

(b)(5) deliberative

Let me know if I am way off base here. Thanks!



Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

-----Melissa Weitz/DC/USEPA/US wrote: -----

To: Suzanne Waltzer/DC/USEPA/US@EPA From: Melissa Weitz/DC/USEPA/US

Date: 07/26/2012 09:32AM

Subject: Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

Can you take a quick look at this?

(See attached file: QFR - EPW July2012_CCD7-24v2 mw.docx)

Suzanne Waltzer---07/26/2012 09:17:31 AM---Melissa, I believe you worked on Q15? Could you give me a quick call. OAQPS had a question on the la

From: Suzanne Waltzer/DC/USEPA/US
To: Melissa Weitz/DC/USEPA/US@EPA
Cc: Suzanne Kocchi/DC/USEPA/US@EPA

Date: 07/26/2012 09:17 AM

Subject: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

Melissa,

I believe you worked on Q15? Could you give me a quick call. OAQPS had a question on the last sentence (see below).

Thanks,

---- Forwarded by Suzanne Waltzer/DC/USEPA/US on 07/26/2012 09:16 AM -----

From: Chris Frantz/RTP/USEPA/US

To: Suzanne Waltzer/DC/USEPA/US@EPA

Cc: Bruce Moore/RTP/USEPA/US@EPA, David Cozzie/RTP/USEPA/US@EPA, Alex

Macpherson/RTP/USEPA/US@EPA

Date: 07/25/2012 04:54 PM

Subject: Re: Oil and Gas QFRs - CCD responses for OAQPS review

Suzie,

We're reviewing some oil and gas QFR responses for OAP. I'm not sure about the accuracy of the last paragraph of the response to Q15, but Alex thought you might have some insight. Thanks for the help.

[attachment "QFR - EPW July2012_CCD7-24v2.docx" deleted by Melissa Weitz/DC/USEPA/US]

Chris Frantz
Fuels and Incineration Group
Office of Air Quality Planning and Standards
U.S. Environmental Protection Agency
919 541-4312

Alex Macpherson---07/25/2012 10:18:26 AM---Chris Q8 seems fine to me.

From: Alex Macpherson/RTP/USEPA/US To: Chris Frantz/RTP/USEPA/US@EPA

Cc: Bruce Moore/RTP/USEPA/US@EPA, David Cozzie/RTP/USEPA/US@EPA

Date: 07/25/2012 10:18 AM

Subject: Re: Oil and Gas QFRs - CCD responses for OAQPS review

Chris

Q8 seems fine to me.

Not so sure q15 is right though. I think it is referring to the ANGA/API study, that was mainly about liquids unloading (not in NSPS) and recompletion counts (NSPS is already consistent). I think we wrote a good response to the Bloomberg writer on this...maybe confer with Suzie on this?

FYI: I'm on leave and I'm about to hit the road for DC. WIII be seeing OAP folks tomorrow at their offices.

Alex

-----Chris Frantz/RTP/USEPA/US wrote: -----

To: Alex Macpherson/RTP/USEPA/US@EPA

From: Chris Frantz/RTP/USEPA/US

Date: 07/24/2012 04:49PM

Cc: Bruce Moore/RTP/USEPA/US@EPA, David Cozzie/RTP/USEPA/US@EPA

Subject: Re: Oil and Gas QFRs - CCD responses for OAQPS review

Alex can you take a look at the paragraph they highlighted on Q15? I assume they're referring to the API/ANGAA study and I'm not sure if that paragraph is entirely correct. Also Q8 could use some extra eyes on it. Seems correct to me but I'm not certain.

Chris Frantz
Fuels and Incineration Group
Office of Air Quality Planning and Standards
U.S. Environmental Protection Agency
919 541-4312

Suzanne Kocchi---07/24/2012 02:57:40 PM---Hi everyone - Attached are CCD's consolidated responses. Can you please review them and let us know

From: Suzanne Kocchi/DC/USEPA/US

To: Mark DeFigueiredo/DC/USEPA/US@EPA

Cc: Suzanne Waltzer/DC/USEPA/US@EPA, Alex Macpherson/RTP/USEPA/US@EPA, Angela

Hackel/RTP/USEPA/US@EPA, Bruce Moore/RTP/USEPA/US@EPA, Chris Frantz/RTP/USEPA/US@EPA, David Cozzie/RTP/USEPA/US@EPA, Melissa

Weitz/DC/USEPA/US@EPA Date: 07/24/2012 02:57 PM

Subject: Re: Oil and Gas QFRs - CCD responses for OAQPS review

Hi everyone - Attached are CCD's consolidated responses. Can you please review them and let us know if you have any comments? There are several which a clearly joint responses. We also specifically highlighted a couple of places we know we need you to review with comment bubbles. Our office gave us a deadline of next Fri to submit the CCD final responses so can we get your comments and edits by cobnext Tue 7/31 so we have some time to do any edits before the due date? Please let us know if you have any questions. Thanks so much, in advance! Suzie

(See attached file: QFR - EPW July2012 CCD7-24v2.docx)

Suzie Kocchi, Chief of Staff Climate Change Division US Environmental Protection Agency

Phone: 202.343.9387

Mark DeFigueiredo---07/23/2012 01:11:39 PM---Hi everyone - I can draft up a response for Q20. I'm tied up in meetings this afternoon, but can ai

From: Mark DeFigueiredo/DC/USEPA/US To: Suzanne Waltzer/DC/USEPA/US@EPA

Cc: Alex Macpherson/RTP/USEPA/US@EPA, Angela Hackel/RTP/USEPA/US@EPA, Bruce

Moore/RTP/USEPA/US@EPA, Chris Frantz/RTP/USEPA/US@EPA, David Cozzie/RTP/USEPA/US@EPA, Suzanne Kocchi/DC/USEPA/US@EPA

Date: 07/23/2012 01:11 PM Subject: Re: Oil and Gas QFRs

Hi everyone -

I can draft up a response for Q20. I'm tied up in meetings this afternoon, but can aim to get you something tomorrow.

Thanks, Mark

Mark de Figueiredo, J.D., Ph.D. Climate Change Division U.S. Environmental Protection Agency (202) 343-9928

Suzanne Waltzer---07/23/2012 11:52:55 AM---Hi Chris and Alex, I am looping in Suzie K who is coordinating the QFR responses for OAP. I am a

From: Suzanne Waltzer/DC/USEPA/US To: Chris Frantz/RTP/USEPA/US@EPA

Cc: Alex Macpherson/RTP/USEPA/US@EPA, Angela Hackel/RTP/USEPA/US@EPA, Bruce

Moore/RTP/USEPA/US@EPA, David Cozzie/RTP/USEPA/US@EPA, Suzanne Kocchi/DC/USEPA/US@EPA, Mark DeFigueiredo/DC/USEPA/US@EPA

Date: 07/23/2012 11:52 AM Subject: Re: Oil and Gas QFRs

Hi Chris and Alex,

I am looping in Suzie K who is coordinating the QFR responses for OAP. I am also ccing Mark who is leading our reporting rule responses.

Thanks,

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

-----Chris Frantz/RTP/USEPA/US wrote: -----

To: Alex Macpherson/RTP/USEPA/US@EPA, Angela Hackel/RTP/USEPA/US@EPA

From: Chris Frantz/RTP/USEPA/US

Date: 07/23/2012 11:25AM

Cc: Bruce Moore/RTP/USEPA/US@EPA, David Cozzie/RTP/USEPA/US@EPA, Suzanne

Waltzer/DC/USEPA/US@EPA Subject: Re: Oil and Gas QFRs

Thanks for catching that Alex. It certainly seems like Q20 is referring to the GHG reporting rule, considering the NSPS does not require monitoring of GHGs. Angela, do you know who is working on this from OAP. I think they would be in a better position to answer this particular question.

Chris Frantz
Fuels and Incineration Group
Office of Air Quality Planning and Standards
U.S. Environmental Protection Agency
919 541-4312

Alex Macpherson---07/23/2012 11:16:58 AM---Hi Chris I'm trying to make progress on my assignments for this. It seems to me that Q20 is directe

From: Alex Macpherson/RTP/USEPA/US To: Chris Frantz/RTP/USEPA/US@EPA

Cc: Bruce Moore/RTP/USEPA/US@EPA, David Cozzie/RTP/USEPA/US@EPA, Suzanne

Waltzer/DC/USEPA/US@EPA Date: 07/23/2012 11:16 AM Subject: Re: Oil and Gas QFRs

Hi Chris

I'm trying to make progress on my assignments for this. It seems to me that Q20 is directed toward the reporting rule? Please advise....and I'm cc-ing Suzie here as well.

Also, who is point for OAP on their assignements? Suzie?

Thanks Alex

20. Most producers do not normally track the information EPA requires to be reported for this rule. To begin tracking the GHG emissions required by this rule, America's oil and natural gas producers will be required to purchase costly equipment to affix to their operations merely to inventory GHG emissions. As the rule goes into effect, it is most damaging to America's smaller independents who will have to bear the cost of affixing this inventory equipment to their operations. What specifically is EPA doing to ensure that the rule will be economically feasible for these smaller producers?

Response: OAQPS/SPPD

crack at a couple. Specifically if you

From: Chris Frantz/RTP/USEPA/US

To: Alex Macpherson/RTP/USEPA/US@EPA

Cc: David Cozzie/RTP/USEPA/US@EPA, Bruce Moore/RTP/USEPA/US@EPA

Date: 07/18/2012 04:22 PM Subject: Oil and Gas QFRs

Alex,

You mind reviewing some of these responses and taking a crack at a couple. Specifically if you could review what I put together for 4 and 17 and take a shot at drafting 19 and 20, I would appreciate it. Also, if you see any needed edits to any of the other responses assigned to SPPD please fire away. Tomorrow or Friday would be fine, but let me know if that's not doable. Thanks for the help.

Chris

[attachment "061912 QfRs from EPW Oil and Gas hearing OAQPS_CFrev.docx" deleted by Chris Frantz/RTP/USEPA/US]

Chris Frantz
Fuels and Incineration Group
Office of Air Quality Planning and Standards
U.S. Environmental Protection Agency
919 541-4312

[attachment "QFR - EPW July2012_CCD7-24v2.docx" removed by Alex Macpherson/RTP/USEPA/US]

[attachment "QFR - EPW July2012 CCD7-24v2 mw.docx" removed by Suzanne Waltzer/DC/USEPA/US]



Re: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

Suzanne Kocchi to: Melissa Weitz

08/01/2012 03:39 PM

Cc: Suzanne Waltzer

History: This message has been forwarded.

yes, send it on.

Melissa Weitz Hi Suzie, Response to QFR #15 is below. L... 08/01/2012 03:36:32 PM

From: Melissa Weitz/DC/USEPA/US

To: Suzanne Kocchi/DC/USEPA/US@EPA
Cc: Suzanne Waltzer/DC/USEPA/US@EPA

Date: 08/01/2012 03:36 PM

Subject: Fw: Oil and Gas QFRs - CCD responses for OAQPS review

Hi Suzie,

Response to QFR #15 is below. Let me know if I should send this on to Chris.

Melissa Weitz	One more review (sorry! moved the API/AN	08/01/2012 11:19:02 AM
Suzanne Waltzer	Looks great! Just change "since" to "after" to	08/01/2012 11:05:15 AM
Melissa Weitz	One more quick review EPA evaluated all	08/01/2012 10:54:38 AM
Suzanne Waltzer	I know this one is confusing. How about this	08/01/2012 10:40:54 AM
Melissa Weitz	So, this? Sorry, I'm just very confused about	07/31/2012 04:37:07 PM
Melissa Weitz	Re-reading it, I'm pretty sure the first sentenc	07/31/2012 09:54:42 AM
Suzanne Waltzer	Hi Melissa, One quick overarching question	07/27/2012 10:31:46 AM



RE: Sources for Natural Gas Sector Emissions Minnucci, Chris A. to: Melissa Weitz

History:

This message has been forwarded.

thanks Melissa

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/1/2012 5:40 PM

To: Minnucci, Chris A. Cc: Richards, Richard Y.

Subject: RE: Sources for Natural Gas Sector Emissions

The tables look good. Thanks!

"Minnucci, Chris A." ---08/01/2012 03:11:57 PM---Melissa,

From: "Minnucci, Chris A." <CHRIS.A.MINNUCCI@saic.com>
To: "Richards, Richard Y." <RICHARD.Y.RICHARDS@saic.com>, Melissa

Weitz/DC/USEPA/US@EPA Date: 08/01/2012 03:11 PM

Subject: RE: Sources for Natural Gas Sector Emissions

Melissa,

This was the one other main issue we wanted to discuss, see Dick's e-mail below. Could you take a look at the table he sent and let us know if that will work as an approach for addressing the other production sources? Our basic thought was that if we use tables rather than text, we can avoid a lot of repetition (e.g., the 1996 GRI/EPA survey will have to be referenced under just about every section as the source of the emission factor; putting this info in a table may reduce the repetitiveness for the reader).

Anyway, please let us know if this approach works for you.

thanks, Chris

From: Richards, Richard Y. Sent: Wed 8/1/2012 1:55 PM

To: Melissa Weitz Cc: Minnucci, Chris A.

Subject: Sources for Natural Gas Sector Emissions

08/01/2012 06:02 PM

Melissa,

For the production emissions sources other than completions, workovers, and liquids unloading, I think it may be useful to summarize the current methodologies and sources with equations and tables. I have attached an example for heaters (field separation equipment). If we have time on the 2PM call, we can look at this to see if you would like this approach.

Some of the sources listed in the spreadsheet appear to be unpublished memos. We will probably want to track down these memos to identify the original sources that would be useful to stakeholders.

Dick Richards | SAIC Senior Environmental Scientist | Climate Change Services Energy, Environment & Infrastructure Solutions office: 202.488.6606 | mobile: 703.424.5027

Please consider the environment before printing this email.



graycol.gif



History:

Re: Aggregated Gas STAR data Suzanne Waltzer to: Melissa Weitz

Cc: Carey Bylin

This message has been forwarded.

That sounds right to me. Since this should hopefully not be a large effort for ERG, lets start with that request and then we may need one back and forth to adjust as needed once we see the data. Sound ok? Also, please feel free to have ERG contact me or Melissa directly if they have questions when they are pulling the data. We will not direct them to do any new work without checking with you first but just if they run into an issue or want to raise a key issue that should considered when pulling/aggregating the data in the way we have requested, etc.

Thanks!

Suzie

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

-----Melissa Weitz/DC/USEPA/US wrote: -----To: Carey Bylin/DC/USEPA/US@EPA From: Melissa Weitz/DC/USEPA/US

Date: 08/02/2012 06:20PM

Cc: Suzanne Waltzer/DC/USEPA/US@EPA Subject: Re: Aggregated Gas STAR data

Hi Carey,

It sounds like what we want is for each year, the aggregated number for each emission reduction option. We can match it up with the inventory categories from there. Does that make sense? I'm not sure what the data looks like, so not totally sure what to ask for.

Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

-----Carey Bylin/DC/USEPA/US wrote: -----To: Melissa Weitz/DC/USEPA/US@EPA From: Carev Bylin/DC/USEPA/US

Date: 08/02/2012 06:13PM

Cc: Suzanne Waltzer/DC/USEPA/US@EPA Subject: Re: Aggregated Gas STAR data

08/03/2012 09:48 AM

Hi Melissa and Suzie,

I will make this request of ERG but I am confused if you want aggregated data or a list of every record of reductions that were reported to us. Also, for all activities (sources)? Keep in mind the data will be organized by emission reduction option, which will not necessarily match perfectly with our categories, so someone will have to do that matching to source categories and aggregation of all the reports over the years (someone at SAIC, I presume).

Ms. Carey Bylin Natural Gas STAR Program Global Methane Initiative, Oil & Gas U.S. Environmental Protection Agency Phone: +1-202-343-9669

Visiting Address & Private Deliveries (courier, FedEx etc.) 1310 L St., NW Washington, DC 20005

U.S. Mail Address: 1200 Pennsylvania Ave., NW (6207J) Washington DC 20460

Melissa Weitz---07/26/2012 04:38:34 PM---That covers it. So total numbers for each year from 1990-2011 for each category (e.g. well completi

From: Melissa Weitz/DC/USEPA/US

To: Suzanne Waltzer/DC/USEPA/US@EPA

Cc: bylin.carey@epa.gov Date: 07/26/2012 04:38 PM

Subject: Re: Aggregated Gas STAR data

That covers it. So total numbers for each year from 1990-2011 for each category (e.g. well completions and workovers, liquids unloading).

Thank you!!

Suzanne Waltzer---07/26/2012 04:31:25 PM---Hi Carey, To follow-up on the istar data discussion we had at the team meeting this week, I talked t

From: Suzanne Waltzer/DC/USEPA/US

To: bylin.carey@epa.gov

Cc: Melissa Weitz/DC/USEPA/US@EPA

Date: 07/26/2012 04:31 PM

Subject: Aggregated Gas STAR data

Hi Carey,

To follow-up on the istar data discussion we had at the team meeting this week, I talked to Melissa and I think we decided for now that we just need the aggregated emission reduction data by source for the entire time series from 1990 to 2011. We recognize that 2011 may not be complete yet.

Melissa, anything to add?

Carey if you have any questions, let us know.

Thanks!

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar



Re: liquids unloading quick q Suzanne Waltzer to: Melissa Weitz

08/03/2012 12:48 PM

History:

This message has been forwarded.

Makes sense to me. I will change that. Thanks!

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

-----Melissa Weitz/DC/USEPA/US wrote: -----To: Suzanne Waltzer/DC/USEPA/US@EPA

From: Melissa Weitz/DC/USEPA/US

Date: 08/01/2012 12:52PM

Subject: liquids unloading quick q

Would it make sense to say (b)(5) deliberative

Re: liquids unloading quick q Melissa Weitz to: Suzanne Waltzer

08/03/2012 02:04 PM

Sorry, read your other email first.

(b)(5) deliberative

I am confusing myself. Whatever makes sense to you is good with me.

Suzanne Waltzer Hi Melissa, In thinking through this again. C... 08/03/2012 01:49:11 PM

From: Suzanne Waltzer/DC/USEPA/US
To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/03/2012 01:49 PM

Subject: Re: liquids unloading quick q

Hi Melissa,

In thinking through this again. Could we say

(b)(5) deliberative

I know you are

aware of all of this but just wanted to talk it through so it is straight in my mind.

Suzie wanted me to

(b)(5) deliberative

Thoughts?

Thanks!

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J) Phone: 202-343-9544

Phone: 202-343-9544 Web: www.epa.gov/gasstar

-----Melissa Weitz/DC/USEPA/US wrote: -----To: Suzanne Waltzer/DC/USEPA/US@EPA

From: Melissa Weitz/DC/USEPA/US

Date: 08/01/2012 12:52PM Subject: liquids unloading quick q

Would it make sense to say

(b)(5) deliberative

additional liquids unloading analysis

Melissa Weitz to: Minnucci, Chris A.

Cc: "Kidman, Timothy M."

08/06/2012 10:20 AM

Hello,

Attached below is a draft of the alternative analysis referred to as "ICF method" in the draft liquids unloading background memo.

Please review the attached, an incorporate it (high-level summary) into the memo. Also, please send me any questions/comments you have on the attachment. The approach was developed to meet a request. It is still under review. As noted in the document, it is draft, and is not to be distributed, etc.

Thank you! Melissa



LU method memo.docx

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov



RE: additional liquids unloading analysis Minnucci, Chris A. to: Melissa Weitz

Cc: "Kidman, Timothy M."

History: This message has been forwarded.

ok, will take a look. Thanks Melissa

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Mon 8/6/2012 10:20 AM

To: Minnucci, Chris A. Cc: Kidman, Timothy M.

Subject: additional liquids unloading analysis

Hello,

Attached below is a draft of the alternative analysis referred to as "ICF method" in the draft liquids unloading background memo.

Please review the attached, an incorporate it (high-level summary) into the memo. Also, please send me any questions/comments you have on the attachment. The approach was developed to meet a request. It is still under review. As noted in the document, it is draft, and is not to be distributed, etc.

Thank you! Melissa

(See attached file: LU method memo.docx)

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov 08/06/2012 11:48 AM

Does this sound about right to you? We'll state upfront that we have a lot of questions and don't expect them to be able to answer them immediately, but to use the data in the inventory, or present it as an option at the workshop, we'd like more information on these.

(b)(5) deliberative



RE: background memo completions/workovers Minnucci, Chris A. to: Melissa Weitz

08/07/2012 08:26 PM

History:

This message has been replied to and forwarded.

Melissa,

Attached please find our second draft of the liquids unloading options paper, addressing your comments. Our changes are in track changes, and we have added text to your comments explaining what we have done. There is still some formatting issues remaining, but we were planning on waiting to fix those after we have a cleaner, more final version.

We look forward to receiving your comments on the attached.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tue 8/7/2012 1:46 PM To: Kidman, Timothy M. Cc: Minnucci, Chris A.

Subject: RE: background memo completions/workovers

Great--thanks!

"Kidman, Timothy M." ---08/07/2012 01:45:28 PM---Hi Melissa,

From: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/07/2012 01:45 PM

Subject: RE: background memo completions/workovers

Hi Melissa,

4PM EST works for me. I'll plan on calling you then.

Tim

Tim Kidman | SAIC Climate Change Analyst

Energy, Environment & Infrastructure Solutions

phone: 626.993.8872

Energy | Environment | National Security | Health | Critical Infrastructure

Please consider the environment before printing this email.

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tuesday, August 07, 2012 10:41 AM

To: Kidman, Timothy M. Cc: Minnucci, Chris A.

Subject: RE: background memo completions/workovers

Hi Tim,

Are you free at 4PM EST today? Tomorrow afternoon looks okay too.

My quick thoughts on your questions.



"Kidman, Timothy M." ---08/06/2012 04:36:16 PM---Hi Melissa,

From: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

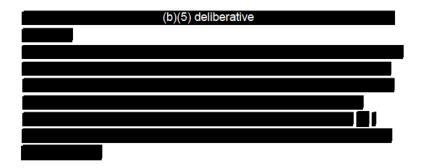
Date: 08/06/2012 04:36 PM

Subject: RE: background memo completions/workovers

Hi Melissa,

I've made some good progress on the completions and workovers memo, and have a few follow-up questions to our conversation last week. Do you have 30 minutes to catch up in the next day or two? In particular, my questions are:

(b)(5) deliberative



Please let me know if there is a good time to talk one of the next few afternoons.

Thanks, Tim

Tim Kidman | SAIC

Climate Change Analyst

Energy, Environment & Infrastructure Solutions

phone: 626.993.8872

Energy | Environment | National Security | Health | Critical Infrastructure

Please consider the environment before printing this email.

From: Minnucci, Chris A.

Sent: Friday, July 27, 2012 6:18 AM

To: Kidman, Timothy M.

Subject: FW: background memo completions/workovers

Tim,

Here's the memo with Melissa's comments. Please give me a call if you have questions.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Thu 7/26/2012 6:22 PM

To: Minnucci, Chris A.

Subject: background memo completions/workovers

Hello,

Attached is the background memo with my comments.

I am hoping to get the full reductions data to you tomorrow or Monday.

Some of the numbers in the table were developed before the inventory was finalized last year, so that should be why they don't match up. Please update with the current numbers.

Thanks!

Melissa

(See attached file: Completion Workover Memo_SAIC



re-structure_v2 MW comments.docx) graycol.gif

(b)(5) deliberative

Liquids Unloading Memo_SAIC re-structure_v4.docx

Q's for API/ANGA/URS today
Melissa Weitz to: Suzanne Kocchi, Mark DeFigueiredo

Hello, Below is a draft list of questions for API/ANGA on the report. Please feel free to add/edit, or let me know if you have any questions/comments. Thanks! Melissa (b)(5) deliberative

08/08/2012 09:49 AM

(b)(5) deliberative

Re: Fw: Re: qs for tomorrow Melissa Weitz to: Suzanne Waltzer

08/08/2012 09:50 AM

No questions on your comments--thanks for reviewing/adding.

(b)(6) privacy

Suzanne Waltzer Sorry for the long-rambling voice message. I... 08/08/2012 07:56:22 AM

From:

Suzanne Waltzer/DC/USEPA/US

To: Date: Melissa Weitz/DC/USEPA/US@EPA 08/08/2012 07:56 AM

Date: Subject:

Fw: Re: qs for tomorrow

Sorry for the long-rambling voice message. It has been an exhausting week and its only Wed!:)

Let me know if you have any questions on my comments. Otherwise, III see you at 1.

Thanks!

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

----Forwarded by Suzanne Waltzer/DC/USEPA/US on 08/08/2012 07:53AM -----

To: Melissa Weitz/DC/USEPA/US@EPA From: Suzanne Waltzer/DC/USEPA/US

Date: 08/08/2012 07:47AM Subject: Re: qs for tomorrow

Hi Melissa,

Some notes in blue below. Looks good. I will also leave you a voice message with a few additional thoughts I am not going to have time to type out. If my comments are straight forward, no need to talk this morning. If you would still like to, I am happy to chat this am (though there will probably be some background noise:) Otherwise, I will be in right before the 1 pm meeting.

Is there a room for it?

Thanks!

Suzie

Suzie Waltzer
Natural Gas STAR Program
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar -----Melissa Weitz/DC/USEPA/US wrote: -----To: Suzanne Waltzer/DC/USEPA/US@EPA

From: Melissa Weitz/DC/USEPA/US

Date: 08/07/2012 05:45PM Subject: qs for tomorrow

Does this sound about right to you? We'll state upfront that we have a lot of questions and don't expect them to be able to answer them immediately, but to use the data in the inventory, or present it as an option at the workshop, we'd like more information on these.

(b)(5) deliberative

(b)(5) deliberative	

Re: Fw: Q's for API/ANGA/URS today

Melissa Weitz to: Melissa Weitz 08/08/2012 11:10 AM

More info on WRAP survey?

Melissa Weitz Melissa M. Weitz U.S. Environmental Protec... 08/08/2012 10:46:28 AM

From: Melissa Weitz/DC/USEPA/US

To: Melissa Weitz <weitz.melissa@epa.gov>

Date: 08/08/2012 10:46 AM

Subject: Fw: Q's for API/ANGA/URS today

Melissa M. Weitz

U.S. Environmental Protection Agency

Climate Change Division

(202) 343-9897

Weitz.Melissa@epa.gov

---- Forwarded by Melissa Weitz/DC/USEPA/US on 08/08/2012 10:33 AM -----

From: Melissa Weitz/DC/USEPA/US

To: Suzanne Kocchi/DC/USEPA/US@EPA, Mark DeFigueiredo/DC/USEPA/US@EPA

Cc: Suzanne Waltzer/DC/USEPA/US@EPA

Date: 08/08/2012 09:49 AM

Subject: Q's for API/ANGA/URS today

Hello,

Below is a draft list of questions for API/ANGA on the report. Please feel free to add/edit, or let me know if you have any questions/comments.

Thanks! Melissa

(b)(5) deliberative g

(b)(5) deliberative	
W	

Fw: Q's for API/ANGA/URS today

Melissa Weitz to: Bill Irving 08/08/2012 11:53 AM

I'll stop by now

---- Forwarded by Melissa Weitz/DC/USEPA/US on 08/08/2012 11:53 AM -----

From: Melissa Weitz/DC/USEPA/US

To: Suzanne Kocchi/DC/USEPA/US@EPA, Mark DeFigueiredo/DC/USEPA/US@EPA

Cc: Suzanne Waltzer/DC/USEPA/US@EPA

Date: 08/08/2012 09:49 AM

Subject: Q's for API/ANGA/URS today

Hello,

Below is a draft list of questions for API/ANGA on the report. Please feel free to add/edit, or let me know if you have any questions/comments.

Thanks! Melissa

(b)(5) deliberative g

(b)(5) deliberative			
		•	

08/08/2012 04:40 PM

Hello,

Attached below is the reductions data. Its format is not great...

To get data on the production sector, filter by BMP. The BMP's starting with "PROD" are the production activities.

The 4 PROD BMPs are below

Cc: "Kidman, Timothy M."

BMP

PROD1 Identify and Replace High-Bleed Pneumatic Devices

PROD2 Install Flash Tank Separators on Glycol Dehydrators

PROD3 Partner Reported Opportunities (sort by activity name. includes artificial lifts, install flares (some of which are at completions), perform reduced emissions completions for hydraulically fractured gas wells) PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

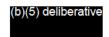
Thanks! Melissa

(b)(5) deliberative

Excel862012155416 1 reductions to 2011 for SAIC.xlsx

DRAFT background memo on liquids unloading Melissa Weitz to: Paula Fields, Clint Burklin, Jessica Gray

08/10/2012 05:36 PM



Liquids Unloading Memo_SAIC re-structure_v4.docx



updated slides on contributors to increase in Inventory emissions Melissa Weitz to: Leif Hockstad 08/12/2012 11:48 AM

Background on updates to the Inventory made in 2011. Use the ppt slide, not the email. I would cut and paste the information, but I'm in NJ and my parents don't have microsoft office, so I can only see files but can't copy things. It is a strange world.

Say hi to the manatees for me! Melissa

-----Forwarded by Melissa Weitz/DC/USEPA/US on 08/12/2012

11:45AM -----

To: Suzanne Kocchi/DC/USEPA/US@EPA

From: Melissa Weitz/DC/USEPA/US

Date: 07/16/2012 04:19PM

Subject: updated slides on contributors to increase in Inventory

emissions

I'll also print and bring tomorrow.

(See attached file: Changes to GHG Inventory for Natural Gas

7.16.pptx)

---- Forwarded by Melissa Weitz/DC/USEPA/US on 07/16/2012 04:19 PM -----

From: "Stricklin, Eric" < Eric. Stricklin@icfi.com>

To: Melissa Weitz/DC/USEPA/US@EPA, "Robinson, Donald"

<Donald.Robinson@icfi.com>

Cc: Suzanne Waltzer/DC/USEPA/US@EPA

Date: 07/16/2012 03:00 PM Subject: RE: QTA for ICF

Melissa,

Below in red are my responses to the questions from Akachi. Keep

in mind (b)(5) deliberative

Let me know if you have any questions.

What task order should I charge this work under?

Best,

Eric



Eric Stricklin | Analyst | 703.218.2505 | eric.stricklin@icfi.com ICF INTERNATIONAL | 9300 Lee Highway, Fairfax VA 22031 | www.icfi.com From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Monday, July 16, 2012 9:35 AM To: Stricklin, Eric; Robinson, Donald

Cc: Suzanne Waltzer Subject: Fw: QTA for ICF

Hi Eric,

Please see the QTA below.

I need to head out of the office for about 30 mins, but should be available at 10 if you'd like to discuss.

Thank you! Melissa

---- Forwarded by Melissa Weitz/DC/USEPA/US on 07/16/2012 09:33 AM -----

From: Akachi Imegwu/DC/USEPA/US To: Melissa Weitz/DC/USEPA/US@EPA

Date: 07/16/2012 09:19 AM Subject: Re: QTA for ICF

Hi Melissa, Yes please proceed. Thanks

Also, I am out of the office today so I may not check many emails.

Akachi N. Imegwu Climate Change Division Greenhouse Gas Reporting Program Office of Air and Radiation US Environmental Protection Agency p(202) 343-9709 f(202) 343-2361

-----Melissa Weitz/DC/USEPA/US wrote: -----To: Akachi Imegwu/DC/USEPA/US@EPA From: Melissa Weitz/DC/USEPA/US

Date: 07/16/2012 08:46AM

Cc: Suzanne Waltzer/DC/USEPA/US@EPA, Mark

DeFigueiredo/DC/USEPA/US@EPA

Subject: QTA for ICF

Hi Akachi,

Would it be possible to have ICF do a QTA this a.m.? Sarah D. requested this information and I am seeing conflicting numbers when I tried to look into this myself.

Sarah is interested in knowing the contribution of various updates to the change in emissions from the 2010 and 2011 Inventories for Natural Gas CH4 emissions.

Let me know, and I'm happy to discuss this with you/ICF if there are any questions.

Melissa

QTA—by Monday afternoon.





I've pasted the agenda below in case it didn't come through in the document I sent. I'm at my parents' house and they don't have microsoft word, so I tried to convert a works document to word and send it. I think it worked, but I'm not sure...

Stakeholder Workshop on Natural Gas in the Inventory of U.S. GHG Emissions and Sinks

Day 1: Overview and Production Sector

9:00-9:20 Opening

Welcome and Opening Remarks-- Sarah Dunham EPA (5 mins)

Introductions and Workshop Overview -- Bill Irving EPA (15 mins)

9:20-10:20 Background on GHG Inventory, GHGRP, and Natural Gas in the GHG Inventory

Presentation: Overview of U.S. GHG Inventory--Leif Hockstad EPA (15 mins)

--Process, schedule, recalculations, review, etc.

Presentation: Subpart W and GHG Inventory-- Anhar Karimjee EPA (15 mins)

Presentation: Overview of Natural Gas in the GHG Inventory--Melissa Weitz, EPA (15 mins)

--General methodology, key emissions sources, results of 2012 Inventory, recent changes

to GHG Inventory, overview of focus areas for updates

Q&A for Clarification on Background Information (15 mins)

10:20-10:35 Production Sector: Overview of Natural Gas Production Sector in the GHG Inventory

Presentation: Overview of Natural Gas Production Sector in the GHG Inventory--Melissa Weitz, EPA (10 mins)

--Key sources, general information on data sources, methodology

Q&A for Clarification on Overview (5 mins)

10:35-11:05 Production Sector: Gas Well Counts

Presentation: Overview GHG Inventory and Gas well count data--Melissa Weitz, EPA (10 mins)

--Key topics: Use of gas well count data in the GHG inventory, sources of data, options

for updates

Q&A for Clarification of Overview (5 mins)

Presentation: Options for Gas well count data-- Karin Ritter, API (10 mins)

Discussion on Well Counts (5 mins)

11:05-12:35 Production Sector: Liquids Unloading

Presentation: Current U.S. Inventory Methods and Key Areas for Updates--TBD, EPA (15 mins)

--Current Inventory: Data sources, methodology (including methodology for reductions),

emission factor

--Key Areas for Updates: Types and fraction of wells that require liquids unloading,

number of blowdowns per year, emissions released per blowdown, use of controls and

emissions impacts of controls

Q&A for Clarification of Current Inventory (10 mins)

Presentation: Updates to Liquids Unloading Emissions Estimates--Karin Ritter, API (15 mins)

Presentation: CARB data on Liquids Unloading--CARB, to be confirmed (15 mins)

Discussion on Liquids Unloading Updates (20 mins)

12:35-1:30 Lunch Break

1:30-3:05 Production Sector: Well Completions and Workovers for Wells with Hydraulic Fracturing

Presentation: Current U.S. Inventory Methods and Key Areas for Updates--Melissa Weitz, EPA

(15 mins)

--Current Inventory: Data sources, methodology (including methodology for reductions),

emission factor

--Key Areas for Updates: Improved activity data including expanding well completion

data to include Marcellus Shale and other areas, updating the refracture frequency

Q&A for Clarification of Current Inventory (10 mins)

Presentation: Count of Well Completions, and Refracture Rate---Karin Ritter, API (20 mins)

Presentation: Shale Gas Emissions-- Frankie O'Sullivan, MIT (15 mins)

Presentation: Flow Duration and Emission Factor-- Joe Leonard, URS and TBD, Oklahoma City

University (15 mins)

Discussion on Well Completions and Workovers Updates (20 mins)

3:05-3:20 Break

3:20-4:20 Production Sector: Other Production Sector Sources

Presentation: Current U.S. Inventory Methods and Key Areas for Updates--TBD, ERG

Q&A for Clarification of Current Inventory

Discussion of Other Production Sources

4:20-4:35 Production Sector: Sector-Wide Emissions Estimates

Presentation: Denver Measurements Work--Gabriel Petron, NOAA, to be confirmed

4:35-5:00 Closing of Day 1

Summary of Day 1: TBD, ERG

Covers major points raised, key questions

Next Steps and Close of Day 1: Paul Gunning, EPA

Day 2: Processing, Transmission and Storage, and Distribution

9:00-9:15 Opening

Welcome, introductions-- Bill Irving, EPA

Brief Recap of Day 1: TBD, ERG

9:15-10:15 Processing Sector

Presentation: Current U.S. Inventory Methods and Key Areas for

Updates--TBD, ERG

Q&A for Clarification of Current Inventory

Presentation: Placeholder for Stakeholder Presentation

Discussion of Processing Sector Sources

10:15-11:15 Transmission and Storage Sector

Presentation: Current U.S. Inventory Methods and Key Areas for Updates--TBD, ERG

Q&A for Clarification of Current Inventory

Presentation: Placeholder for Stakeholder Presentation

Discussion of Transmission and Storage Sector Sources

11:15-11:30 Break

11:30-12:30 Distribution Sector

Presentation: Current U.S. Inventory Methods and Key Areas for Updates--TBD, ERG

Q&A for Clarification of Current Inventory

Presentation: Upcoming Pipeline Data--TBD, GTI, to be confirmed

Discussion of Distribution Sector Sources

12:30-1:00 Closing of Workshop

Summary of Day 2: TBD, ERG

--Covers major points raised, key questions

Next Steps and Close of Workshop: Paul Gunning, EPA

background memo liquids unloading Melissa Weitz to: Suzanne Waltzer

08/12/2012 06:13 PM

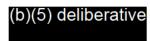
Hi,

I was planning to add my comments and then send this to you for review, but I am at my parents' house and I've discovered they do not have microsoft word.

So, if you have a chance to review this and add your comments, I will add mine tomorrow night or Tuesday.

Generally I think it does a pretty good job of walking through the options, and what we currently do in the Inventory. The numbers in it are clearly wrong, so I'll need to check in with them on that.

Then maybe Tuesday we can discuss what form might work for the workshop (shortened memo, slides, etc.)?



MelissaLiquids Unloading Memo_SAIC re-structure_v4.docx



RE: RE: reductions data Minnucci, Chris A. to: Melissa Weitz

Chris A. to: Melissa Weitz 08/13/2012 04:54 PM

History:

This message has been forwarded.

Melissa,

Attached please find a couple of examples of the format we are planning to use to describe the options for updating using Subpart W for the "other production sources" paper. We are trying to put a lot of the material in tabular form, in order to avoid having a lot of text that will likely be very repetitous across the 30 or so different sources. If you could take a quick look at this and let us know if we are on the right track or need to make changes, that would be much appreciated.

thanks, Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Mon 8/13/2012 9:06 AM

To: Minnucci, Chris A.

Subject: Re: RE: reductions data

How about 2PM?

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

----- "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/13/2012 07:57AM Subject: RE: reductions data

Melissa,

Tuesday is fine, I'll be available anytime after 9:30 so just let me know.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/10/2012 6:18 PM To: Minnucci, Chris A.

Subject: RE: reductions data

I'm out of the office Monday. How is Tuesday?

"Minnucci, Chris A." ---08/08/2012 08:02:43 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/08/2012 08:02 PM Subject: RE: reductions data

Melissa,

Friday afternoon is not good for me. How does Monday look for you?

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 5:53 PM

To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data

Hi,

I'm out of the office tomorrow, but I am available Friday afternoon. Would 4PM work?

Melissa

"Minnucci, Chris A." ---08/08/2012 05:45:12 PM---Melissa, Yes I would like to discuss this, please let me know when you might be available this week.

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>
To: Melissa Weitz/DC/USEPA/US@EPA
Cc: "Kidman, Timothy M." < TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data

Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

Chris

----Original Message----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 4:40 PM

To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: reductions data

Hello,

Attached below is the reductions data. Its format is not great...

To get data on the production sector, filter by BMP. The BMP's starting with "PROD" are the production activities.

The 4 PROD BMPs are below

BMP

PROD1 Identify and Replace High-Bleed Pneumatic Devices
PROD2 Install Flash Tank Separators on Glycol Dehydrators
PROD3 Partner Reported Opportunities (sort by activity name, includes artificial lifts, install flares (some of which are at completions),
perform reduced emissions completions for hydraulically fractured gas

PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]



(b)(5) deliberative

= lmage.1344863195589.gif Sources_example.docx



RE: RE: reductions data Minnucci, Chris A. to: Melissa Weitz

08/13/2012 05:58 PM

History:

This message has been replied to and forwarded.

Melissa,

I caught an error in the previous version of the Liquids Unloading paper. The numbers in the emission tables are in Tgs CH4, but the table titles said Tgs CO2e. In the attached version this has been fixed.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Mon 8/13/2012 9:06 AM

To: Minnucci, Chris A.

Subject: Re: RE: reductions data

How about 2PM?

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

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Subject: RE: reductions data

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Thanks! Melissa

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[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]



= lmage.1344863195589.gif

(b)(5) deliberative

Liquids Unloading Memo_SAIC re-structure_v5.docx

Re: reductions data

Mark DeFigueiredo to: Melissa Weitz

08/14/2012 09:09 AM

History:

This message has been forwarded.

Thanks - let me check with others on the W team who might be closer to this and get back to you.

Melissa Weitz

---- Original Message -----

From: Melissa Weitz

Sent: 08/14/2012 09:06 AM EDT

To: Mark DeFigueiredo

Subject: Fw: reductions data

Let me know if you'd like me to set up a call/meeting with SAIC to discuss this.

---- Forwarded by Melissa Weitz/DC/USEPA/US on 08/14/2012 09:05 AM -----

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/13/2012 06:06 PM Subject: RE: RE: reductions data

Melissa,

In reviewing materials for one of the options papers,

(b)(5) deliberative

Please see the

attached writeup from Tim for a more detailed explanation. We wanted to pass this on to you ASAP so you could alert the appropriate Subpart W folks at EPA.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Mon 8/13/2012 9:06 AM

To: Minnucci, Chris A.

Subject: Re: RE: reductions data

How about 2PM?

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Thanks!

Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

=

[attachment "Image.1344863195589.gif" deleted by Mark DeFigueiredo/DC/USEPA/US] [attachment "Subpart W Conversion Example.docx" deleted by Mark DeFigueiredo/DC/USEPA/US]



Re: background memo liquids unloading Suzanne Waltzer to: Melissa Weitz

08/14/2012 10:20 AM

History:

This message has been forwarded.

almost through GAO. Will focus on this next!

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

Melissa Weitz From: Melissa Weitz/DC/USEPA/US To: Suz... 08/12/2012 06:13:26 PM

From: Melissa Weitz/DC/USEPA/US

To: Suzanne Waltzer/DC/USEPA/US@EPA

Date: 08/12/2012 06:13 PM

Subject: background memo liquids unloading

Hi,

I was planning to add my comments and then send this to you for review, but I am at my parents' house and I've discovered they do not have microsoft word.

So, if you have a chance to review this and add your comments, I will add mine tomorrow night or Tuesday.

Generally I think it does a pretty good job of walking through the options, and what we currently do in the Inventory. The numbers in it are clearly wrong, so I'll need to check in with them on that.

Then maybe Tuesday we can discuss what form might work for the workshop (shortened memo, slides, etc.)?

Melissa[attachment "Liquids Unloading Memo_SAIC re-structure_v4.docx" deleted by Suzanne Waltzer/DC/USEPA/US]



Latest GAO Report comments

Suzanne Waltzer to: Melissa Weitz, Suzanne Kocchi, Mark

DeFigueiredo 08/14/2012 11:37 AM

Cc: Bill Irving, Leif Hockstad

History:

This message has been forwarded.

All,

I finished reviewing this GAO report. The quick overview is -

It is primarily a review of current information on the size of shale oil and gas resources with a brief look at trends in production from 2007 to 2011. There is also a high level review of the environmental and public health impacts but they generally conclude that while shale oil and gas development poses risks, the information is not available to determine the extent of these risks because the studies do not take into account the long-term cumulative effects. There are no recommendations made to EPA or the other Federal Agencies.

My comments are generally summarized below and included in the attached -

•	(b)(5) deliberative
Meli	ssa, it sounds like you may have already (b)(5) deliberative Do you want to add your comments next?
	o, note that Bruce has been involved in this process and is on the distribution list so he should also eviewing/commenting (b)(5) deliberative
Let	me know if you have any questions.
Tha	nks,
Suzi	ie

(b)(5) deliberative

Comments on 12-732 GAO HF Associated Resources & Risks Draft Report.xlsx

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

---- Forwarded by Suzanne Waltzer/DC/USEPA/US on 08/14/2012 10:36 AM -----

From:

Maureen Hingeley/DC/USEPA/US

To:

Bruce Moore/RTP/USEPA/US@EPA, Suzanne Waltzer/DC/USEPA/US@EPA, Pamela

Franklin/DC/USEPA/US@EPA, Melissa Weitz/DC/USEPA/US@EPA, Greg Nizich/RTP/USEPA/US@EPA, Mark DeFigueiredo/DC/USEPA/US@EPA, Joshua

Minorics/RTP/USEPA/US@EPA, Jolynn Collins/RTP/USEPA/US@EPA

Date:

08/09/2012 01:30 PM

Subject:

comments due 8/16 for GAO draft report 'Oil and Gas: Information on Shale Resources,

Development, and Environmental and Public Health Risks' (GAO-12-732)

Hi Everyone,

GAO has issued a draft report for the 'Oil and Gas: Information on Shale Resources, Development, and Environmental and Public Health Risks' audit. Please review the report and <u>using the excel doc</u>, please send any comments or edits to me by August 16th.

thanks

draft report

(b)(5) deliberative

GAO_12_732 (DRAFT).pdf

excel doc to insert comments

Maureen Hingeley
Office of Program Management Operations
Office of Air and Radiation
US EPA
202-564-1306
202-564-1327 fax

---- Forwarded by Maureen Hingeley/DC/USEPA/US on 08/09/2012 12:45 PM ----

From: MarkT Howard/DC/USEPA/US

To: Hyon Kim/DC/USEPA/US@EPA, Marilyn Ramos/DC/USEPA/US@EPA, Michael

Mason/DC/USEPA/US@EPA, Johnsie Webster/DC/USEPA/US@EPA, Gwendolyn

Spriggs/DC/USEPA/US@EPA, Maureen Hingeley/DC/USEPA/US@EPA, Courtney Hyde/DC/USEPA/US@EPA, Lorraine Fleury/R3/USEPA/US@EPA, Wayne Anthofer/R8/USEPA/US@EPA, Susan Jenkins/R6/USEPA/US@EPA, Reynaldo

Gomez/R6/USEPA/US@EPA, Eric Levy/R5/USEPA/US@EPA, Kathy

Finazzo/R7/USEPA/US@EPA, Mara Notbusch/R5/USEPA/US@EPA, Norman

Adkins/RTP/USEPA/US

Cc: Mindy Kairis/DC/USEPA/US@EPA, Marna McDermott/DC/USEPA/US@EPA, Tim

Sullivan/DC/USEPA/US@EPA, Kate Fay/R8/USEPA/US@EPA, Timothy

Henry/R5/USEPA/US@EPA, Pamala List/DC/USEPA/US@EPA, Bobbie Trent/DC/USEPA/US,

Deborah Heckman/DC/USEPA/US@EPA, Kami Nolte/DC/USEPA/US@EPA

Date: 08/09/2012 12:41 PM

Subject: Fw: Oil and Gas: Information on Shale Resources, Development, and Environmental and Public

Health Risks (GAO-12-732)- DRAFT

AII,

To make the comment aggregation process go smoother, we are requesting that your office provide comments in the attached excel spreadsheet.

Comments should be sent to me, cc: ing Bob, HyonAh, and Norm in ORD.



Comments on 12-732 GAO HF Associated Resources & Risks Draft Report.xlsx

ORD has agreed to take the comments from the excel table and put them into an adobe acrobat pdf document so they comments can be viewed in context of the document itself.

If your office would like to also send a marked up pdf document, we would be glad to have that as well.

Thanks, Mark

MarkT Howard
GAO Liaison Team (2732A)
OCFO/OB
Ariel Rios North 4442P
United States Environmental Protection Agency
1200 Pennsylvania Ave., NW
Washington, DC 20460
Phone: 202-564-1697

---- Forwarded by MarkT Howard/DC/USEPA/US on 08/09/2012 12:24 PM -----

From: "Spaan, Jay" <SpaanJ@gao.gov>

To: OCFO-GAO@EPA, Bobbie Trent/DC/USEPA/US@EPA

Cc: "Kehr, Christine" <KehrC@GAO.GOV>, "Patterson, Barbara L" <PattersonB@GAO.GOV>,

"Rusco, Franklin" <RuscoF@gao.gov>

Date: 08/06/2012 02:38 PM

EMail: howard.markt@epa.gov

Subject: Oil and Gas: Information on Shale Resources, Development, and Environmental and Public

Health Risks (GAO-12-732)- DRAFT

August, 6, 2012 The Honorable Lisa P. Jackson Administrator, Environmental Protection Agency Dear Ms. Jackson:

Attached is a copy of our proposed report entitled *Oil and Gas: Information on Shale Resources, Development, and Environmental and Public Health Risks* (GAO-12-732). We are providing this draft for your review and comment before the report is issued. Our work was done under engagement code 361350.

We would like to obtain the department's comments from you or your designated representative by August 20, 2012. These comments will be reflected in the final report. We prefer written comments and request that they be provided electronically. However, we will accept comments provided in hard copy, orally, or in an unsigned e-mail message. Please direct all comments and any questions you may have concerning this draft to Christine Kehr, Assistant Director, (214) 777-5675 or (KehrC@gao.gov) or Jay Spaan, Analyst In Charge, (214) 777-5636 or (SpaanJ@gao.gov).

This draft has not been fully reviewed within GAO, is subject to change, and must be safeguarded to prevent its improper disclosure. Please do not show or release its contents for any purpose. All drafts remain the property of GAO. Upon request, all electronic copies of drafts must be destroyed and any hard copies of drafts must be returned. We appreciate your cooperation in this matter.

Sincerely yours,

Frank Rusco
Director, Natural Resources and Environment

Enclosure

(b)(5) deliberative

GAO_12_732 (DRAFT).pdf

Fw: reductions data
Melissa Weitz to: Suzanne Waltzer

08/14/2012 11:50 AM

If you haven't started yet, use this version. Thank you for looking at this!!

---- Forwarded by Melissa Weitz/DC/USEPA/US on 08/14/2012 11:49 AM -----

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/14/2012 10:00 AM Subject: RE: RE: reductions data

Melissa,

Here's the paper with numbers in CO2e.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tue 8/14/2012 9:07 AM

To: Minnucci, Chris A.

Subject: RE: RE: reductions data

Thanks Chris,

Would you mind converting the TgCH4 values to TgCO2e in the paper?

Thanks! Melissa

"Minnucci, Chris A." ---08/13/2012 05:58:53 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/13/2012 05:58 PM Subject: RE: RE: reductions data

Melissa,

I caught an error in the previous version of the Liquids Unloading paper. The numbers in the emission tables are in Tgs CH4, but the table titles said Tgs CO2e. In the attached version this has been fixed.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Mon 8/13/2012 9:06 AM

To: Minnucci, Chris A.

Subject: Re: RE: reductions data

How about 2PM?

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

----- "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/13/2012 07:57AM Subject: RE: reductions data

Melissa,

Tuesday is fine, I'll be available anytime after 9:30 so just let me know.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/10/2012 6:18 PM

To: Minnucci, Chris A.

Subject: RE: reductions data

I'm out of the office Monday. How is Tuesday?

"Minnucci, Chris A." ---08/08/2012 08:02:43 PM---Melissa,

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To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/08/2012 08:02 PM Subject: RE: reductions data

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Friday afternoon is not good for me. How does Monday look for you?

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.qov]

Sent: Wed 8/8/2012 5:53 PM

To: Minnucci, Chris A. **Cc:** Kidman, Timothy M.

Subject: RE: reductions data

Hi,

I'm out of the office tomorrow, but I am available Friday afternoon. Would 4PM work?

Melissa

"Minnucci, Chris A." ---08/08/2012 05:45:12 PM---Melissa, Yes I would like to discuss this, please let me know when you might be available this week.

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>
To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data

Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

Chris

----Original Message----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 4:40 PM To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: reductions data

Hello,

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I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

=[attachment "Image.1344863195589.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "Liquids Unloading Memo_SAIC re-structure_v5.docx" deleted by Melissa Weitz/DC/USEPA/US]

(b)(5) deliberative

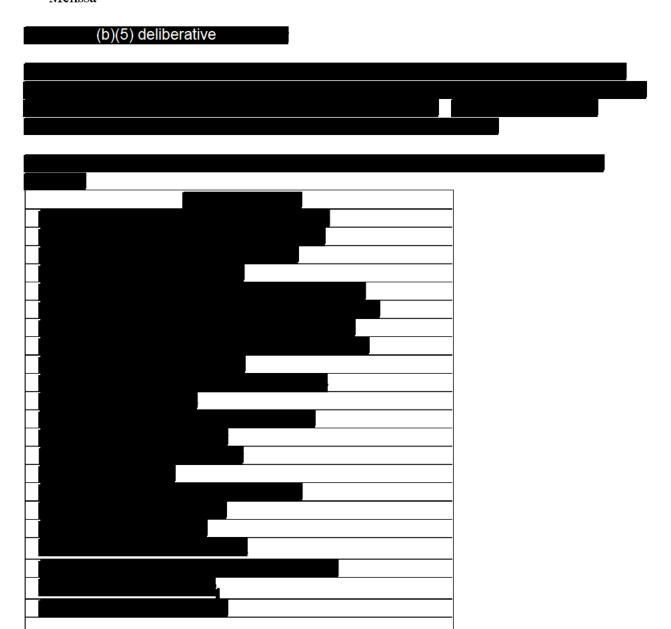
graycol.gif Liquids Unloading Memo SAIC re-structure v6.docx

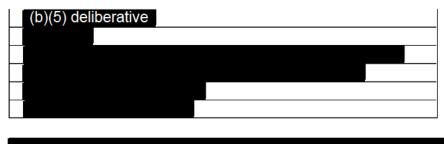
Hi Akachi--

Sorry, I should have run this by you first. It relates to Task 2d. The request can be used to help us further evaluate the emission factors used in Subpart W, and the activity data received under Subpart W.

Is this okay? If so, I can respond to ICF.

Melissa







Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

From: "Robinson, Donald" <Donald.Robinson@icfi.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: Akachi Imegwu/DC/USEPA/US@EPA, "Mallya, Hemant" < Hemant.Mallya@icfi.com >, "Pape, Diana" < Diana.Pape@icfi.com >, "Freed, Randy" < Randy.Freed@icfi.com >, "Bluestein, Joel"

Santa Santa: apegien.com, "Freed, Handy Strandy: Freedgen.com, Bluestein, 30cl. Sold Santa Seastream, Sandra Seastrea

<Eric.Stricklin@icfi.com>

Date: 08/14/2012 10:37 AM

Subject: RE: documentation for inventory inputs

Melissa,

This work seems entirely related to just the National Inventory. We cannot find any basis in the Task Order 108 Subpart W statement of work that supports this request. Can you please cite what SOW statement in T.O. 108 supports this work and provide ICF with a directive?

Thank you:

Don

Donald Robinson Vice President ICF International 703-218-2512 703-934-3915 fax From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tuesday, August 14, 2012 9:30 AM

To: Robinson, Donald **Cc:** Akachi Imegwu

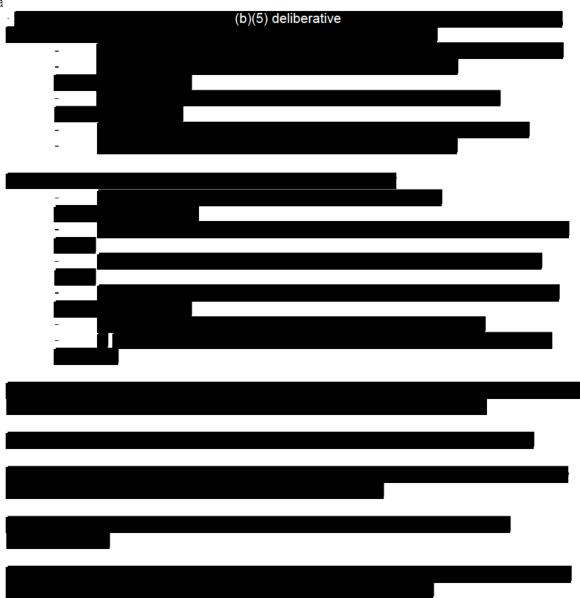
Subject: documentation for inventory inputs

Hi Don,

There are a few items that I am missing from my files related to the Inventory. These may be in files that Lisa Hanle transferred over to me, but I've been unable to find them.

Would you be able to send me a copy of the following sources for inputs/assumptions to the inventory?

Thanks! Melissa



Re: Fw: reductions data

Mark DeFigueiredo to: Melissa Weitz

08/14/2012 04:20 PM

History:

This message has been replied to and forwarded.

Hi Melissa - I'd like to have a call with SAIC to walk us through their analysis. Shall I just get in touch with them directly and keep you cc'd?

Mark

Melissa Weitz Let me know if you'd like me to set up a call/... 08/14/2012 09:06:31 AM

From: Melissa Weitz/DC/USEPA/US

To: Mark DeFigueiredo/DC/USEPA/US@EPA

Date: 08/14/2012 09:06 AM Subject: Fw: reductions data

Let me know if you'd like me to set up a call/meeting with SAIC to discuss this.

---- Forwarded by Melissa Weitz/DC/USEPA/US on 08/14/2012 09:05 AM -----

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/13/2012 06:06 PM Subject: RE: RE: reductions data

Melissa,

In reviewing materials for one of the options papers,

(b)(5) deliberative

Please see the

attached writeup from Tim for a more detailed explanation. We wanted to pass this on to you ASAP so you could alert the appropriate Subpart W folks at EPA.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Mon 8/13/2012 9:06 AM

To: Minnucci, Chris A.

Subject: Re: RE: reductions data

How about 2PM?

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov ----- "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/13/2012 07:57AM Subject: RE: reductions data

Melissa,

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From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/10/2012 6:18 PM **To:** Minnucci, Chris A.

Subject: RE: reductions data

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To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/08/2012 08:02 PM Subject: RE: reductions data

Melissa,

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Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 5:53 PM

To: Minnucci, Chris A.
Cc: Kidman, Timothy M.
Subject: RE: reductions data

Hi.

I'm out of the office tomorrow, but I am available Friday afternoon. Would 4PM work?

Melissa

"Minnucci, Chris A." ---08/08/2012 05:45:12 PM---Melissa, Yes I would like to discuss this, please let me know when you might be available this week.

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data

Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

Chris

----Original Message-----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 4:40 PM To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: reductions data

Hello,

Attached below is the reductions data. Its format is not great...

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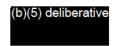
Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks!

Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)
[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]





= Image.1344863195589.gif Subpart W Conversion Example.docx

Re: Fw: reductions data

Melissa Weitz to: Mark DeFigueiredo 08/14/2012 04:28 PM

Sounds great--thanks!

Mark DeFigueiredo Hi Melissa - I'd like to have a call with SAIC... 08/14/2012 04:20:24 PM

From: Mark DeFigueiredo/DC/USEPA/US
To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/14/2012 04:20 PM Subject: Re: Fw: reductions data

Hi Melissa - I'd like to have a call with SAIC to walk us through their analysis. Shall I just get in touch with them directly and keep you cc'd?

Mark

Melissa Weitz	Let me know if you'd like me to set up a call/ 08/14/2012 09:06:31 AM	1
---------------	---	---

RE: reductions data

Mark DeFigueiredo to: Minnucci, Chris A.

08/14/2012 05:21 PM

Cc: Melissa Weitz, "Kidman, Timothy M.", David Jacobson, Michael Rohwer

History:

This message has been forwarded.

Thanks Chris, tomorrow from 12:30-1pm would be great. Go ahead and send around a scheduler with your conference line. Could you also include my colleagues David Jacobson and Michael Rohwer, who are cc'd on this email?

Best wishes.

Mark

Mark de Figueiredo, J.D., Ph.D. Climate Change Division U.S. Environmental Protection Agency (202) 343-9928

"Minnucci, Chris A."

Mark. 08/14/2012 05:17:50 PM

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Mark DeFigueiredo/DC/USEPA/US@EPA, "Kidman, Timothy M." To:

> <TIMOTHY.M.KIDMAN@saic.com> Melissa Weitz/DC/USEPA/US@EPA

08/14/2012 05:17 PM Date: RE: reductions data Subject:

Mark,

Cc:

Yes, we'd be happy to go over this with you. I am going to have my colleague Tim Kidman join the call and lead you through this, as he is the person who discovered the potential issue here.

Does 12:30 tomorrow work? If so, would you like us to set up a conference call on SAIC's line?

thanks. Chris

From: Mark DeFigueiredo [mailto:DeFigueiredo.Mark@epamail.epa.gov]

Sent: Tue 8/14/2012 4:37 PM

To: Minnucci, Chris A.; Kidman, Timothy M.

Cc: Melissa Weitz

Subject: Fw: reductions data

Dear Chris.

Melissa forwarded your note

(b)(5) deliberative

ľd.

be interested in having a call with you (along with a couple of my GHG Reporting Program colleagues) so that you could walk us through the exercise that you did. Are you available for a 30 minute call? We're free during the following time slots (eastern time):

Wednesday 8/14: Noon-1, 4:30-5 Thursday 8/15: Noon-1, 4-5

Thanks! Mark

Mark de Figueiredo, J.D., Ph.D. Climate Change Division U.S. Environmental Protection Agency (202) 343-9928

---- Forwarded by Melissa Weitz/DC/USEPA/US on 08/14/2012 09:05 AM -----

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/13/2012 06:06 PM Subject: RE: RE: reductions data

Melissa,

In reviewing materials for one of the options papers,

(b)(5) deliberative

Please see the

attached writeup from Tim for a more detailed explanation. We wanted to pass this on to you ASAP so you could alert the appropriate Subpart W folks at EPA.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.qov]

Sent: Mon 8/13/2012 9:06 AM

To: Minnucci, Chris A.

Subject: Re: RE: reductions data

How about 2PM?

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

-----"Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/13/2012 07:57AM

Subject: RE: reductions data

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Chris

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Sent: Fri 8/10/2012 6:18 PM **To:** Minnucci, Chris A.

Subject: RE: reductions data

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To: Minnucci, Chris A.
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To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

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----Original Message-----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 4:40 PM To: Minnucci, Chris A.

Cc: Kidman, Timothy M. Subject: reductions data

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Thanks!

Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

=(See attached file: Image.1344863195589.gif)(See attached file: Subpart W Conversion Example.docx)



RE: reductions data Minnucci, Chris A. to: Melissa Weitz

Cc: "Kidman, Timothy M."

History:

This message has been replied to and forwarded.

Melissa,

Attached please find the second draft of the completions and workovers paper. As we discussed today, (b)(5) deliberative

Other than these two issues I believe we've addressed all the comments.

We look forward to receiving your comments on this draft.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/10/2012 6:18 PM

To: Minnucci, Chris A.

Subject: RE: reductions data

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Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 5:53 PM

To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data 08/14/2012 06:53 PM

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To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

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Subject: reductions data

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Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

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[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US] (b)(5) deliberative

graycol.gif Completion Workover Memo_08.13.12.docx



IU
Melissa Weitz to: Melissa Weitz
Please respond to (b)(6) privacy

08/14/2012 10:43 PM

History:

This message has been forwarded.

(b)(5) deliberative

Liquids Unloading Memo_SAIC re-structure_mw.docx



Re: Latest GAO Report comments

Suzanne Waltzer to: Mark DeFigueiredo, Melissa Weitz, Suzanne Kocchi

Cc: Bill Irving, Leif Hockstad

History: This message has been forwarded.

Please see attached updated comments on this GAO report. This version includes Melissa's comments on the emissions estimates.

I wanted to see if anyone else is planning to comment. If not, I will go ahead and send this to OAQPS to see if they would like to add their comments to this file and provide a consolidated OAR set. The deadline is tomorrow so I would like to send to OAQPS later this morning if possible.

Thanks!

Suize

(b)(5) deliberative

Comments on 12-732 GAO HF Associated Resources & Risks Draft Report OAPV2.xlsx

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

Suzanne Waltzer

To: Melissa Weitz/DC/USEPA/US@EPA, Suzanne Kocchi/DC/USEPA/US@EPA, Mark

All, I finished reviewing this GAO report. The...

DeFigueiredo/DC/USEPA/US@EPA

Suzanne Waltzer/DC/USEPA/US

Cc: Bill Irving/DC/USEPA/US@EPA, Leif Hockstad/DC/USEPA/US@EPA

Date: 08/14/2012 11:37 AM

Subject: Latest GAO Report comments

All,

From:

I finished reviewing this GAO report. The quick overview is -

It is primarily a review of current information on the size of shale oil and gas resources with a brief look at trends in production from 2007 to 2011. There is also a high level review of the environmental and public health impacts but they generally conclude that while shale oil and gas development poses risks, the information is not available to determine the extent of these risks because the studies do not take into account the long-term cumulative effects. There are no recommendations made to EPA or the other Federal Agencies.

My comments are generally summarized below and included in the attached -

08/15/2012 08:28 AM

08/14/2012 11:37:14 AM



Melissa, it sounds like you may have

(b)(5) deliberative

Do you want to add your comments next?

Also, note that Bruce has been involved in this process and is on the distribution list so he should also be reviewing/commenting (b)(5) deliberative

Let me know if you have any questions.

Thanks,

Suzie

(b)(5) deliberative

GAO_12_732 (DRAFT).pdf

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

---- Forwarded by Suzanne Waltzer/DC/USEPA/US on 08/14/2012 10:36 AM -----

From:

Maureen Hingeley/DC/USEPA/US

To:

Bruce Moore/RTP/USEPA/US@EPA, Suzanne Waltzer/DC/USEPA/US@EPA, Pamela

Franklin/DC/USEPA/US@EPA, Melissa Weitz/DC/USEPA/US@EPA, Greg Nizich/RTP/USEPA/US@EPA, Mark DeFigueiredo/DC/USEPA/US@EPA, Joshua

Minorics/RTP/USEPA/US@EPA, Jolynn Collins/RTP/USEPA/US@EPA

Date:

08/09/2012 01:30 PM

Subject:

comments due 8/16 for GAO draft report 'Oil and Gas: Information on Shale Resources,

Development, and Environmental and Public Health Risks' (GAO-12-732)

Hi Everyone,

GAO has issued a draft report for the 'Oil and Gas: Information on Shale Resources, Development, and Environmental and Public Health Risks' audit. Please review the report and <u>using the excel doc</u>, please send any comments or edits to me by August 16th.

thanks

draft report

[attachment "GAO_12_732 (DRAFT).pdf" deleted by Suzanne Waltzer/DC/USEPA/US],

excel doc to insert comments

Maureen Hingeley
Office of Program Management Operations
Office of Air and Radiation
US EPA
202-564-1306
202-564-1327 fax

---- Forwarded by Maureen Hingeley/DC/USEPA/US on 08/09/2012 12:45 PM ----

From: MarkT Howard/DC/USEPA/US

To: Hyon Kim/DC/USEPA/US@EPA, Marilyn Ramos/DC/USEPA/US@EPA, Michael

Mason/DC/USEPA/US@EPA, Johnsie Webster/DC/USEPA/US@EPA, Gwendolyn Spriggs/DC/USEPA/US@EPA, Maureen Hingeley/DC/USEPA/US@EPA, Courtney Hyde/DC/USEPA/US@EPA, Lorraine Fleury/R3/USEPA/US@EPA, Wayne Anthofer/R8/USEPA/US@EPA, Susan Jenkins/R6/USEPA/US@EPA, Reynaldo

Gomez/R6/USEPA/US@EPA, Eric Levy/R5/USEPA/US@EPA, Kathy

Finazzo/R7/USEPA/US@EPA, Mara Notbusch/R5/USEPA/US@EPA, Norman

Adkins/RTP/USEPA/US

Cc: Mindy Kairis/DC/USEPA/US@EPA, Marna McDermott/DC/USEPA/US@EPA, Tim

Sullivan/DC/USEPA/US@EPA, Kate Fay/R8/USEPA/US@EPA, Timothy

Henry/R5/USEPA/US@EPA, Pamala List/DC/USEPA/US@EPA, Bobbie Trent/DC/USEPA/US,

Deborah Heckman/DC/USEPA/US@EPA, Kami Nolte/DC/USEPA/US@EPA

Date: 08/09/2012 12:41 PM

Subject: Fw: Oil and Gas: Information on Shale Resources, Development, and Environmental and Public

Health Risks (GAO-12-732)- DRAFT

AII,

To make the comment aggregation process go smoother, we are requesting that your office provide comments in the attached excel spreadsheet.

Comments should be sent to me, cc: ing Bob, HyonAh, and Norm in ORD.

[attachment "Comments on 12-732 GAO HF Associated Resources & Risks Draft Report.xlsx" deleted by Suzanne Waltzer/DC/USEPA/US]

ORD has agreed to take the comments from the excel table and put them into an adobe acrobat pdf document so they comments can be viewed in context of the document itself.

If your office would like to also send a marked up pdf document, we would be glad to have that as well.

Thanks, Mark

MarkT Howard GAO Liaison Team (2732A) OCFO/OB Ariel Rios North 4442P United States Environmental Protection Agency 1200 Pennsylvania Ave., NW Washington, DC 20460 Phone: 202-564-1697

EMail: howard.markt@epa.gov

---- Forwarded by MarkT Howard/DC/USEPA/US on 08/09/2012 12:24 PM -----

From: "Spaan, Jay" <SpaanJ@gao.gov>

To: OCFO-GAO@EPA, Bobbie Trent/DC/USEPA/US@EPA

Cc: "Kehr, Christine" <KehrC@GAO.GOV>, "Patterson, Barbara L" <PattersonB@GAO.GOV>,

"Rusco, Franklin" <RuscoF@gao.gov>

Date: 08/06/2012 02:38 PM

Subject: Oil and Gas: Information on Shale Resources, Development, and Environmental and Public

Health Risks (GAO-12-732)- DRAFT

August, 6, 2012 The Honorable Lisa P. Jackson Administrator, Environmental Protection Agency

Dear Ms. Jackson:

Attached is a copy of our proposed report entitled *Oil and Gas: Information on Shale Resources*, *Development, and Environmental and Public Health Risks* (GAO-12-732). We are providing this draft for your review and comment before the report is issued. Our work was done under engagement code 361350.

We would like to obtain the department's comments from you or your designated representative by August 20, 2012. These comments will be reflected in the final report. We prefer written comments and request that they be provided electronically. However, we will accept comments provided in hard copy, orally, or in an unsigned e-mail message. Please direct all comments and any questions you may have concerning this draft to Christine Kehr, Assistant Director, (214) 777-5675 or (KehrC@gao.gov) or Jay Spaan, Analyst In Charge, (214) 777-5636 or (SpaanJ@gao.gov).

This draft has not been fully reviewed within GAO, is subject to change, and must be safeguarded to prevent its improper disclosure. Please do not show or release its contents for any purpose. All drafts remain the property of GAO. Upon request, all electronic copies of drafts must be destroyed and any hard copies of drafts must be returned. We appreciate your cooperation in this matter.

Sincerely yours,

Frank Rusco Director, Natural Resources and Environment

Enclosure

[attachment "GAO_12_732 (DRAFT).pdf" deleted by Suzanne Waltzer/DC/USEPA/US]

Re: Latest GAO Report comments

Mark DeFigueiredo to: Suzanne Kocchi, Suzanne Waltzer

Cc: Melissa Weitz, Bill Irving, Leif Hockstad

History: This message has been forwarded.

I didn't see anything GHGRP related in my read last week, so go ahead and send on. Suzanne Kocchi

---- Original Message -----

From: Suzanne Kocchi

Sent: 08/15/2012 08:35 AM EDT

To: Suzanne Waltzer

Cc: Mark DeFigueiredo; Melissa Weitz; Bill Irving; Leif Hockstad

Subject: Re: Latest GAO Report comments

I am not going to comment. It looks like this is due tomorrow so we should definitely get it down to Bruce et al today, this morning if possible.

Suzanne Waltzer Please see attached updated comments on t... 08/15/2012 08:28:23 AM

08/15/2012 08:38 AM

From: Suzanne Waltzer/DC/USEPA/US

To: Mark DeFigueiredo/DC/USEPA/US@EPA, Melissa Weitz/DC/USEPA/US@EPA, Suzanne

Kocchi/DC/USEPA/US@EPA

Cc: Bill Irving/DC/USEPA/US@EPA, Leif Hockstad/DC/USEPA/US@EPA

Date: 08/15/2012 08:28 AM

Subject: Re: Latest GAO Report comments

Please see attached updated comments on this GAO report. This version includes Melissa's comments on the emissions estimates.

I wanted to see if anyone else is planning to comment. If not, I will go ahead and send this to OAQPS to see if they would like to add their comments to this file and provide a consolidated OAR set. The deadline is tomorrow so I would like to send to OAQPS later this morning if possible.

Thanks!

Suize

[attachment "Comments on 12-732 GAO HF Associated Resources & Risks Draft Report_OAPV2.xlsx" deleted by Suzanne Kocchi/DC/USEPA/US]

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J) Phone: 202-343-9544

Web: www.epa.gov/gasstar

Suzanne Waltzer All, I finished reviewing this GAO report. The... 08/14/2012 11:37:14 AM

From: Suzanne Waltzer/DC/USEPA/US

To: Melissa Weitz/DC/USEPA/US@EPA, Suzanne Kocchi/DC/USEPA/US@EPA, Mark

DeFigueiredo/DC/USEPA/US@EPA

Cc: Bill Irving/DC/USEPA/US@EPA, Leif Hockstad/DC/USEPA/US@EPA

Date: 08/14/2012 11:37 AM

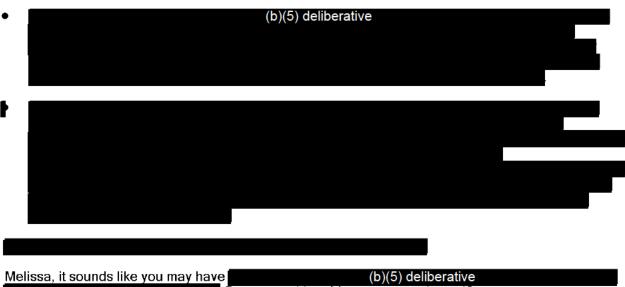
Subject: Latest GAO Report comments

All,

I finished reviewing this GAO report. The guick overview is -

It is primarily a review of current information on the size of shale oil and gas resources with a brief look at trends in production from 2007 to 2011. There is also a high level review of the environmental and public health impacts but they generally conclude that while shale oil and gas development poses risks, the information is not available to determine the extent of these risks because the studies do not take into account the long-term cumulative effects. There are no recommendations made to EPA or the other Federal Agencies.

My comments are generally summarized below and included in the attached -



Do you want to add your comments next?

Also, note that Bruce has been involved in this process and is on the distribution list so he should also be reviewing/commenting (b)(5) deliberative

Let me know if you have any questions.

Thanks,

Suzie

[attachment "GAO_12_732 (DRAFT).pdf" deleted by Suzanne Kocchi/DC/USEPA/US] ,

Suzie Waltzer

Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

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Maureen Hingeley/DC/USEPA/US

To:

Bruce Moore/RTP/USEPA/US@EPA, Suzanne Waltzer/DC/USEPA/US@EPA, Pamela

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Office of Air and Radiation
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Mason/DC/USEPA/US@EPA, Johnsie Webster/DC/USEPA/US@EPA, Gwendolyn Spriggs/DC/USEPA/US@EPA, Maureen Hingeley/DC/USEPA/US@EPA, Courtney Hyde/DC/USEPA/US@EPA, Lorraine Fleury/R3/USEPA/US@EPA, Wayne Anthofer/R8/USEPA/US@EPA, Susan Jenkins/R6/USEPA/US@EPA, Reynaldo

Gomez/R6/USEPA/US@EPA, Eric Levy/R5/USEPA/US@EPA, Kathy Finazzo/R7/USEPA/US@EPA, Mara Notbusch/R5/USEPA/US@EPA, Norman

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Cc: Mindy Kairis/DC/USEPA/US@EPA, Marna McDermott/DC/USEPA/US@EPA, Tim

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Deborah Heckman/DC/USEPA/US@EPA, Kami Nolte/DC/USEPA/US@EPA

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Health Risks (GAO-12-732)- DRAFT

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MarkT Howard GAO Liaison Team (2732A) OCFO/OB Ariel Rios North 4442P United States Environmental Protection Agency 1200 Pennsylvania Ave., NW Washington, DC 20460 Phone: 202-564-1697

EMail: howard.markt@epa.gov

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To: OCFO-GAO@EPA, Bobbie Trent/DC/USEPA/US@EPA

Cc: "Kehr, Christine" <KehrC@GAO.GOV>, "Patterson, Barbara L" <PattersonB@GAO.GOV>,

"Rusco, Franklin" <RuscoF@gao.gov>

Date: 08/06/2012 02:38 PM

Subject: Oil and Gas: Information on Shale Resources, Development, and Environmental and Public

Health Risks (GAO-12-732)- DRAFT

August, 6, 2012
The Honorable Lisa P. Jackson
Administrator, Environmental Protection Agency

Dear Ms. Jackson:

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Sincerely yours,

Frank Rusco
Director, Natural Resources and Environment

Enclosure

[attachment "GAO_12_732 (DRAFT).pdf" deleted by Suzanne Waltzer/DC/USEPA/US]



Comments on Plunger Lift backgrounder suzanne Waltzer to: Melissa Weitz

08/15/2012 11:04 AM

History:

This message has been replied to and forwarded.

Hi Melissa,

This looks great! I have a lot of comments just because it is a dense memo with a lot of good technical info but I think it is in really good shape.

Per my voice message, one of my overarching comments is that

(b)(5) deliberative

Also, in reading the backgrounder

(b)(5) deliberative

Thoughts?

If that approach seems better to you too, let me know and I'll circle back with Suzie, make sure she is comfortable and then set up a call with BLM.

Thanks!

(b)(5) deliberative

Liquids Unloading Memo_SAIC re-structure_v6_SW.docx

Latest BLM memo attached for reference -

(b)(5) deliberative

DRAFT BLM method memo on LU 08 15 12.docx

Melissa Weitz If you haven't started yet, use this version. T... 08/14/2012 11:50:08 AM

From: Melissa Weitz/DC/USEPA/US

To: Suzanne Waltzer/DC/USEPA/US@EPA

Date: 08/14/2012 11:50 AM Subject: Fw: reductions data

If you haven't started yet, use this version. Thank you for looking at this!!

---- Forwarded by Melissa Weitz/DC/USEPA/US on 08/14/2012 11:49 AM -----

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/14/2012 10:00 AM Subject: RE: RE: reductions data

Melissa,

Here's the paper with numbers in CO2e.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tue 8/14/2012 9:07 AM

To: Minnucci, Chris A.

Subject: RE: RE: reductions data

Thanks Chris,

Would you mind converting the TgCH4 values to TgCO2e in the paper?

Thanks! Melissa

"Minnucci, Chris A." ---08/13/2012 05:58:53 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/13/2012 05:58 PM Subject: RE: RE: reductions data

Melissa,

I caught an error in the previous version of the Liquids Unloading paper. The numbers in the emission tables are in Tgs CH4, but the table titles said Tgs CO2e. In the attached version this has been fixed.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.qov]

Sent: Mon 8/13/2012 9:06 AM

To: Minnucci, Chris A.

Subject: Re: RE: reductions data

How about 2PM?

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

----- "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/13/2012 07:57AM Subject: RE: reductions data

Melissa,

Tuesday is fine, I'll be available anytime after 9:30 so just let me know.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.qov]

Sent: Fri 8/10/2012 6:18 PM

To: Minnucci, Chris A.

Subject: RE: reductions data

I'm out of the office Monday. How is Tuesday?

"Minnucci, Chris A." ---08/08/2012 08:02:43 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/08/2012 08:02 PM Subject: RE: reductions data

Melissa,

Friday afternoon is not good for me. How does Monday look for you?

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 5:53 PM

To: Minnucci, Chris A.
Cc: Kidman, Timothy M.
Subject: RE: reductions data

Hi,

I'm out of the office tomorrow, but I am available Friday afternoon. Would 4PM work?

Melissa

"Minnucci, Chris A." ---08/08/2012 05:45:12 PM---Melissa, Yes I would like to discuss this, please let me know when you might be available this week.

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data

Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

Chris

----Original Message----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 4:40 PM To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: reductions data

Hello,

Attached below is the reductions data. Its format is not great...

To get data on the production sector, filter by BMP. The BMP's starting with "PROD" are the production activities.

The 4 PROD BMPs are below

BMP

PROD1 Identify and Replace High-Bleed Pneumatic Devices

PROD2 Install Flash Tank Separators on Glycol Dehydrators

PROD3 Partner Reported Opportunities (sort by activity name. includes

artificial lifts, install flares (some of which are at completions),

perform reduced emissions completions for hydraulically fractured gas wells)

PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data

to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

=[attachment "Image.1344863195589.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "Liquids Unloading Memo_SAIC re-structure_v5.docx" deleted by Melissa Weitz/DC/USEPA/US] [attachment "graycol.gif" deleted by Suzanne Waltzer/DC/USEPA/US] [attachment "Liquids Unloading Memo_SAIC re-structure_v6.docx" deleted by Suzanne Waltzer/DC/USEPA/US]

Hi,

I'm planning to bring the attached (reformatted) agenda for discussion today. I'll also bring a one-pager on outstanding questions and next steps that I just developed, which is included in this attachment. I am pasting that piece below also.

Let me know if you have questions/comments or if there is other information that we should also cover at today's meeting.

Melissa



Natural Gas Stakeholder Agenda 8.15.docx

Stakeholder-suggested agenda items:

- Method/approach/plan/protocol for review of new data for inclusion or replacement in the EPA
 National inventory. i.e. how does a group, such as the GTI UG plastic Leaks or the UT Methane
 E&P Project best submit new data to EPA for inclusion in the latest inventory (What kind of
 advance review and buy-in is best). (URS)
- Discussion on how EPA intends to use data reported for Subpart W to update the national GHG inventory, particularly activity information. (API) (Already covered)
- Discussion on how EPA will revise the presentation of emission reductions (reductions from both industry and regulatory programs) in the inventory. (API)
- Discussion on how EPA will incorporate information from the API/ANGA study into the inventory. (API) (Already covered)

Status of Stakeholder Presentations

Stakeholder Request

Options for Gas well count data-- Karin Ritter, API

Updates to Liquids Unloading Emissions Estimates--Karin Ritter, API

Count of Well Completions, and Refracture Rate---Karin Ritter, API

Flow Duration and Emission Factor-- Joe Leonard, URS

Statistical Review--Oklahoma City University

Upcoming Pipeline Data--TBD, GTI, to be confirmed (question on upcoming data versus current)

Unconfirmed—Left voicemail

Denver Measurements Work--Gabriel Petron, NOAA, to be confirmed

Shale Gas Emissions-- Frankie O'Sullivan, MIT

Gathering and Boosting—CATF

CARB data on Liquids Unloading--CARB, to be confirmed?

Other Next Steps

--Logistics

(this week) Update website with location

(this week) Email participants with updated location and reminder to RSVP

(this week) Follow-up calls with expected participants who haven't yet RSVP'd

(next week) Finalize presentation slots

(next week) Update agenda

(next week) Post updated agenda

--Materials

(tomorrow) Draft of example presentation for stakeholder workshop

(end of this week) Draft of all background memos in good shape

(next week) Receive draft stakeholder presentations, speak with presenters with questions for

clarification, and to avoid presenting the same information in EPA background presentation

(next week) ERG to review background memos

(next week) ERG to format background memos for stakeholder distribution

--shorter fact sheets?

--slides? Same as the slides for presentation?

(next week) draft of all EPA/ERG presentations

(late August) review by EPA of EPA/ERG presentations

(late August/early September) ERG sends near-final materials for stakeholder distribution, and presentations, for review

(early September) Receive final stakeholder presentations

(week of workshop) Distribute finalized stakeholder materials

(week of workshop) Finalize EPA/ERG presentations for workshop



Re: draft agenda for today's meeting

Bill Irving to: Melissa Weitz

Bill Irving/DC/USEPA/US From:

Melissa Weitz/DC/USEPA/US@EPA, To:

History: This message has been replied to and forwarded.

This is great.

The only other thing I can think of is

(b)(5) deliberative

We can bring that up in the discussion with Paul.

Chief - Climate Policy Branch, Climate Change Division, USEPA tel +1 202 343-9065 - mobile +1 202 341 3384

Melissa Weitz Hi, I'm planning to bring the attached (reformatte... 08/15/2012 11:21:36 AM

Melissa Weitz/DC/USEPA/US From: Bill Irving/DC/USEPA/US@EPA To:

Date: 08/15/2012 11:21 AM

Subject: draft agenda for today's meeting

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08/15/2012 11:27 AM

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Thanks so much for reviewing! After seeing this memo, and the ICF memos (which are also in good shape, and I'll send to you after a quick round of back and forth with ICF), I am much less worried about being ready for the workshop! I think we basically have everything we need and it's just a matter of developing slides and deciding what we want to distribute to participants and in what format.

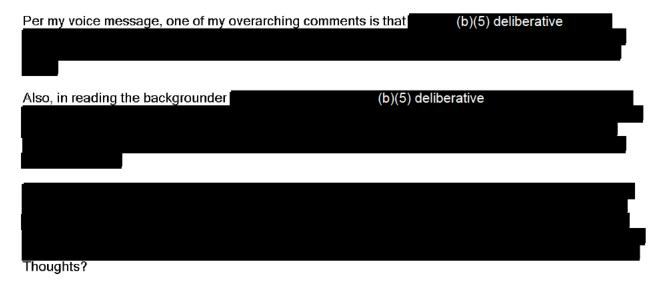
I sent SAIC the BLM memo and so those options should be incorporated along with the others. Are they presented differently or is it just that there are additional alternatives? I can look into this, but if you know off the top of your head, let me know--thanks!

I think it'd be great to talk to BLM to fill them in on what we're up to, and also to get practice in walking through liquids unloading! Maybe talk to them first and then send them an internal draft version of the background memo?

Suzanne Waltzer		Hi Melissa, This looks great! I have a lot of c	08/15/2012 11:04:07 AM	
From:	Suzann	uzanne Waltzer/DC/USEPA/US		
To:	Melissa Weitz/DC/USEPA/US@EPA			
Date:	08/15/2012 11:04 AM			
Subject:	Comme	Comments on Plunger Lift backgrounder		

Hi Melissa,

This looks great! I have a lot of comments just because it is a dense memo with a lot of good technical info but I think it is in really good shape.



If that approach seems better to you too, let me know and I'll circle back with Suzie, make sure she is comfortable and then set up a call with BLM.

Thanks!

[attachment "Liquids Unloading Memo_SAIC re-structure_v6_SW.docx" deleted by Melissa Weitz/DC/USEPA/US]

Latest BLM memo attached for reference -

[attachment "DRAFT BLM method memo on LU_08 15 12.docx" deleted by Melissa Weitz/DC/USEPA/US] $\,$

Melissa Weitz If you haven't started yet, use this version. T... 08/14/2012 11:50:08 AM



Re: draft agenda for today's meeting

Bill Irving to: Melissa Weitz

08/15/2012 11:56 AM

History:

This message has been forwarded.

Something general will be fine

e.g., (b)(5) deliberative

(b)(5) deliberative

Chief - Climate Policy Branch, Climate Change Division, USEPA tel +1 202 343-9065 - mobile +1 202 341 3384

Melissa Weitz Yes--I keep meaning to do that and keep for... 08/15/2012 11:38:21 AM

From: Melissa Weitz/DC/USEPA/US
To: Bill Irving/DC/USEPA/US@EPA

Date: 08/15/2012 11:38 AM

Subject: Re: draft agenda for today's meeting

Yes--I keep meaning to do that and keep forgetting. I'll try to develop an example set of questions for one of the sessions.

Bill Irving	This is great. The only other thing I can think 08/15/2012 11:27:44 AM
Melissa Weitz	Hi, I'm planning to bring the attached (reform 08/15/2012 11:21:36 AM



RE: reductions data Minnucci, Chris A. to: Melissa Weitz

Cc: "Kidman, Timothy M."

History:

This message has been forwarded.

Melissa,

Attached please find the crosswalk spreadsheet for completions and workovers, now expanded to include the 2 new columns you had requested. In addition, we made some changes to some of the other cells, especially in the three rows dealing with flaring emissions, in part to capture some new information from EIA (data source for flaring in the Inventory) that we received after we submitted the original version of this to you.

Please let us know if you have any comments or questions on the attached.

thanks, Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/15/2012 2:27 PM

To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data

Hi Chris,

Could you write up the specific questions you had on EIA and HPDI? I will send them over to be answered but it's not clear from my notes what the questions are.

Thanks! Melissa

"Minnucci, Chris A." ---08/14/2012 06:53:31 PM---Melissa,

From: "Minnucci, Chris A." <CHRIS.A.MINNUCCI@saic.com>
To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/14/2012 06:53 PM Subject: RE: reductions data 08/16/2012 10:48 AM

Melissa,

Attached please find the second draft of the completions and workovers

paper. As we discussed today,

(b)(5) deliberative

Other

than these two issues I believe we've addressed all the comments.

We look forward to receiving your comments on this draft.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/10/2012 6:18 PM To: Minnucci, Chris A.

Subject: RE: reductions data

I'm out of the office Monday. How is Tuesday?

"Minnucci, Chris A." ---08/08/2012 08:02:43 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/08/2012 08:02 PM Subject: RE: reductions data

Melissa,

Friday afternoon is not good for me. How does Monday look for you?

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

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To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data

Hi,

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Would 4PM work?

Melissa

"Minnucci, Chris A." ---08/08/2012 05:45:12 PM---Melissa, Yes I would like to discuss this, please let me know when you might be available

this week.

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data

Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

Chris

----Original Message----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 4:40 PM

To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: reductions data

Hello,

Attached below is the reductions data. Its format is not great...

To get data on the production sector, filter by BMP. The BMP's starting with "PROD" are the production activities.

The 4 PROD BMPs are below

BMP

PROD1 Identify and Replace High-Bleed Pneumatic Devices

PROD2 Install Flash Tank Separators on Glycol Dehydrators

PROD3 Partner Reported Opportunities (sort by activity name. includes

artificial lifts, install flares (some of which are at completions),

perform reduced emissions completions for hydraulically fractured gas wells)

PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "Completion Workover Memo_08.13.12.docx" deleted



by Melissa Weitz/DC/USEPA/US] graycol.gif

WellCompletionsandWorkoversExample_v11.xlsx

08/16/2012 02:43 PM

Cc: "Jessica Gray", "Paula Fields"

Thanks--

(b)(5) deliberative (b)(5) deliberative

Thanks! Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

"Clint Burklin" Melissa, We support the Gas STAR program...

08/16/2012 01:45:11 PM

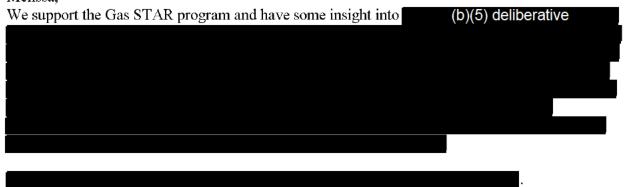
From: "Clint Burklin" < Clint.Burklin@erg.com> Melissa Weitz/DC/USEPA/US@EPA To:

"Jessica Gray" <Jessica.Gray@erg.com>, "Paula Fields" <Paula.Fields@erg.com> 08/16/2012 01:45 PM Cc:

Date:

Re: questions on gas star data Subject:

Melissa,



Please shout if you have more gasSTAR questions. Clint

Clinton E Burklin Vice-President ERG 919-468-7874 (V)
919-468-7801 (Fx)
clint.burklin@erg.com

>>> Melissa Weitz <Weitz.Melissa@epamail.epa.gov> 8/16/2012 12:05 PM >>>

Hi,

SAIC, who is working on the production sector background memos, has a few questions about the use of the Gas Star data.

I'm not sure if you'll be able to answer these from the Inventory documentation or the spreadsheets, but I wanted to run them by you.

I inserted my thoughts/answers in to the email below.

Can you please review this and let me know if you are able to answer the questions?

----- Forwarded by Melissa Weitz/DC/USEPA/US on 08/16/2012 11:54 AM -----

From: "Minnucci, Chris A." <CHRIS.A.MINNUCCI@saic.com>
To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Richards, Richard Y." <RICHARD.Y.RICHARDS@saic.com>

Date: 08/16/2012 10:24 AM

Subject: RE: Undocumented Sources

Melissa,

Thanks! Melissa

In reviewing the Natural Gas STAR data, a couple of questions have arisen:

(b)(5) deliberative



Chris

Hello,

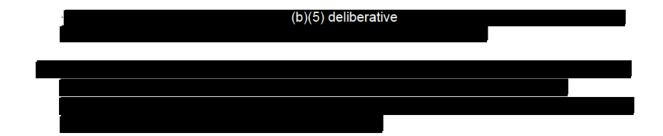
I have a request out to ICF, under TO 108, for the documentation for emissions calculations for several natural gas emissions sources.

Since Akachi is out of the office, I wanted to run the request by you. The reference back to the SOW is in bold, below the list of references requested.

Thank you, Melissa

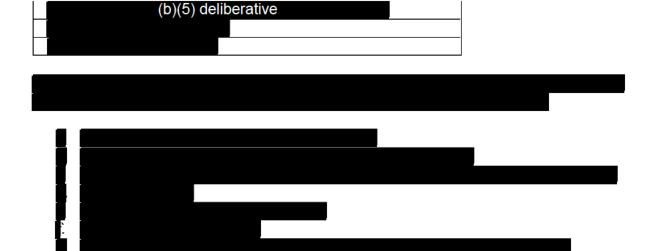
My draft TD:





TEXT COPIED FROM THE SOW FOR TO 108:





Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

"Robinson, Donald"	Melissa, This work seems entirely related t 08/14/2012 10:37:23 AM
--------------------	--

From: "Robinson, Donald" <Donald.Robinson@icfi.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: Akachi Imegwu/DC/USEPA/US@EPA, "Mallya, Hemant" <Hemant.Mallya@icfi.com>, "Pape, Diana" <Diana.Pape@icfi.com>, "Freed, Randy" <Randy.Freed@icfi.com>, "Bluestein, Joel"

<Joel.Bluestein@icfi.com>, "Seastream, Sandra" <Sandra.Seastream@icfi.com>, "Stricklin, Eric"

<Eric.Stricklin@icfi.com> 08/14/2012 10:37 AM

Date: 08/14/2012 10:37 AM
Subject: RE: documentation for inventory inputs

Melissa,

This work seems entirely related to just the National Inventory. We cannot find any basis in the Task Order 108 Subpart W statement of work that supports this request. Can you please cite what SOW statement in T.O. 108 supports this work and provide ICF with a directive?

Thank you:

Don

Donald Robinson Vice President ICF International 703-218-2512 703-934-3915 fax

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tuesday, August 14, 2012 9:30 AM

To: Robinson, Donald

Cc: Akachi Imegwu

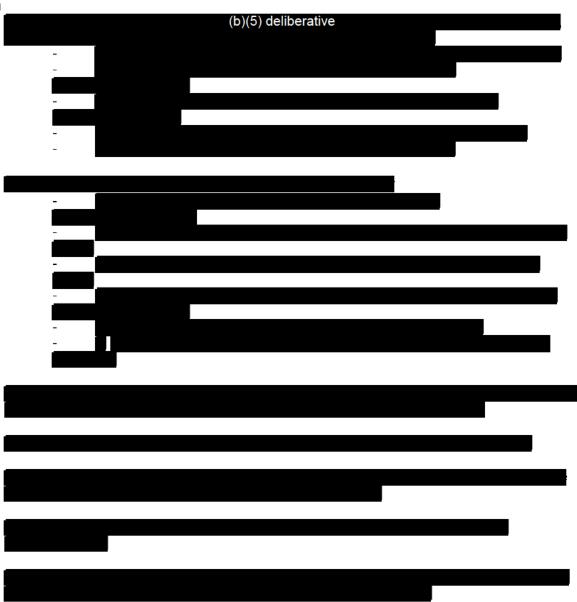
Subject: documentation for inventory inputs

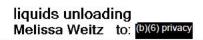
Hi Don,

There are a few items that I am missing from my files related to the Inventory. These may be in files that Lisa Hanle transferred over to me, but I've been unable to find them.

Would you be able to send me a copy of the following sources for inputs/assumptions to the inventory?

Thanks! Melissa





(b)(5) deliberative

Liquids Unloading Memo_SAIC re-structure_v6_SW mw.docx



liquids unloading Melissa Weitz to: Melissa Weitz Please respond to (b)(6) privacy

08/16/2012 08:33 PM

History:

This message has been forwarded.

(b)(5) deliberative

Liquids Unloading Memo_SAIC re-structure_v6_SW mw.docx

Liquids unloading memo Melissa Weitz to: Minnucci, Chris A.

Cc: "Kidman, Timothy M."

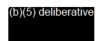
08/17/2012 10:17 AM

This looks great---thank you!

I have a number of comments in the text, attached.

If you are free, can we have a quick check in call this afternoon? Let me know.

Thanks!



Liquids Unloading Memo_SAIC re-structure_v6_SW mw.docx

"Minnucci, Chris A." 08/07/2012 08:26:45 PM Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Melissa Weitz/DC/USEPA/US@EPA To:

Date: 08/07/2012 08:26 PM

Subject: RE: background memo completions/workovers

Melissa,

Attached please find our second draft of the liquids unloading options paper, addressing your comments. Our changes are in track changes, and we have added text to your comments explaining what we have done. There is still some formatting issues remaining, but we were planning on waiting to fix those after we have a cleaner, more final version.

We look forward to receiving your comments on the attached.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tue 8/7/2012 1:46 PM To: Kidman, Timothy M. Cc: Minnucci, Chris A.

Subject: RE: background memo completions/workovers

Great--thanks!

"Kidman, Timothy M." ---08/07/2012 01:45:28 PM---Hi Melissa,

From: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com> To: Melissa Weitz/DC/USEPA/US@EPA Cc: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/07/2012 01:45 PM

Subject: RE: background memo completions/workovers

Hi Melissa,

4PM EST works for me. I'll plan on calling you then.

Tim

Tim Kidman | SAIC

Climate Change Analyst

Energy, Environment & Infrastructure Solutions

phone: 626.993.8872

Energy | Environment | National Security | Health | Critical Infrastructure

Please consider the environment before printing this email.

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tuesday, August 07, 2012 10:41 AM

To: Kidman, Timothy M. **Cc:** Minnucci, Chris A.

Subject: RE: background memo completions/workovers

Hi Tim,

Are you free at 4PM EST today? Tomorrow afternoon looks okay too.

My quick thoughts on your questions.



"Kidman, Timothy M." ---08/06/2012 04:36:16 PM---Hi Melissa,

From: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

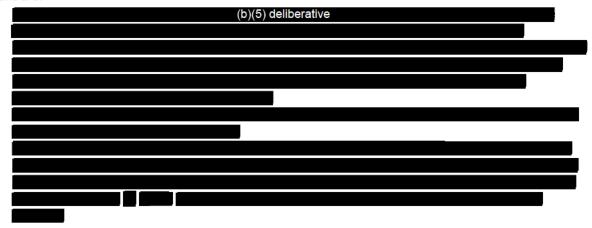
Cc: "Minnucci, Chris A." <CHRIS.A.MINNUCCI@saic.com>

Date: 08/06/2012 04:36 PM

Subject: RE: background memo completions/workovers

Hi Melissa,

I've made some good progress on the completions and workovers memo, and have a few follow-up questions to our conversation last week. Do you have 30 minutes to catch up in the next day or two? In particular, my questions are:



Please let me know if there is a good time to talk one of the next few afternoons.

Thanks,

Tim

Tim Kidman | SAIC

Climate Change Analyst

Energy, Environment & Infrastructure Solutions

phone: 626.993.8872

Energy | Environment | National Security | Health | Critical Infrastructure

Please consider the environment before printing this email.

From: Minnucci, Chris A.

Sent: Friday, July 27, 2012 6:18 AM

To: Kidman, Timothy M.

Subject: FW: background memo completions/workovers

Tim,

Here's the memo with Melissa's comments. Please give me a call if you have questions.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Thu 7/26/2012 6:22 PM

To: Minnucci, Chris A.

Subject: background memo completions/workovers

Hello,

Attached is the background memo with my comments.

I am hoping to get the full reductions data to you tomorrow or Monday.

Some of the numbers in the table were developed before the inventory was finalized last year, so that should be why they don't match up. Please update with the current numbers.

Thanks! Melissa

(See attached file: Completion Workover Memo_SAIC re-structure_v2 MW comments.docx) [attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "Liquids Unloading Memo SAIC re-structure v4.docx" deleted by Melissa Weitz/DC/USEPA/US]



RE: Liquids unloading memo Minnucci, Chris A. to: Melissa Weitz

08/17/2012 12:23 PM

History:

This message has been forwarded.

Melissa,

Yes, I'm available now until 1:30, and then 3 to 4--do either times work? You can call me at 610-296-2028.

I'm also attaching the current version of the "other production sources" paper. At this point the documentation of the current method in the Inventory is complete, and we have added emission numbers for all the sources as well as the regulatory reduction numbers, and those Gas STAR reduction numbers that have already been assigned to specific sources in the Inventory workbook. We are still working on tracing the numbers in the Gas STAR reductions file back to the sources, so wanted to send you what we have now as that tracing effort will take some time.

We're currently working on writeups on how Subpart W can be used to improve the estimates, and are planning to get you a revised version of the paper with those writeups around the middle of next week.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/17/2012 10:17 AM

To: Minnucci, Chris A. Cc: Kidman, Timothy M.

Subject: Liquids unloading memo

This looks great---thank you!

I have a number of comments in the text, attached.

If you are free, can we have a quick check in call this afternoon? Let me know.

Thanks!

(See attached file: Liquids Unloading Memo_SAIC re-structure v6 SW mw.docx)

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Energy | Environment | National Security | Health | Critical Infrastructure

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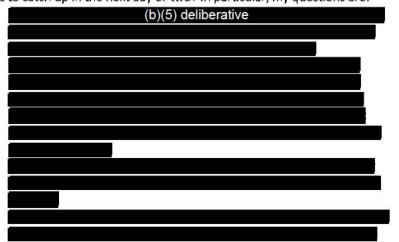
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Energy | Environment | National Security | Health | Critical Infrastructure

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Weitz/DC/USEPA/US] graycol.gif Sources_v11.docx



RE: reductions data Minnucci, Chris A. to: Melissa Weitz

Cc: "Kidman, Timothy M."

History:

This message has been forwarded.

Melissa,

Excellent, if you can provide (b)(5) deliberative

thanks, Chris

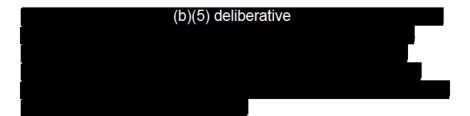
From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/17/2012 12:31 PM

To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data

Hi,

I have a response to your first question--



Can you clarify which data pieces you would like? Both?

Still working on the second piece on the EIA NEMS data.

Melissa

"Minnucci, Chris A." ---08/15/2012 03:48:06 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/15/2012 03:48 PM Subject: RE: reductions data 08/17/2012 01:03 PM

Melissa,



Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/15/2012 2:27 PM

To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data

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----Original Message----

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Sent: Wed 8/8/2012 4:40 PM To: Minnucci, Chris A.

Cc: Kidman, Timothy M. Subject: reductions data

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The 4 PROD BMPs are below

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PROD1 Identify and Replace High-Bleed Pneumatic Devices

PROD2 Install Flash Tank Separators on Glycol Dehydrators

PROD3 Partner Reported Opportunities (sort by activity name. includes

artificial lifts, install flares (some of which are at completions), perform reduced emissions completions for hydraulically fractured gas

wells)

PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the

spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "Completion Workover Memo_08.13.12.docx" deleted by Melissa Weitz/DC/USEPA/US] [attachment "graycol.gif" deleted



by Melissa Weitz/DC/USEPA/US] graycol.gif



RE: reductions data Minnucci, Chris A. to: Mark DeFigueiredo Ce: Melissa Weitz, "Kidman, Timothy M.", David Jacobson, Michael

08/17/2012 04:54 PM

Rohwer, Akachi Imegwu

History:

This message has been forwarded.

Thanks much for letting us know Mark, looks like everything's already ok then.

Chris

From: Mark DeFigueiredo [mailto:DeFigueiredo.Mark@epamail.epa.gov]

Sent: Fri 8/17/2012 4:21 PM

To: Minnucci, Chris A.

Cc: Melissa Weitz; Kidman, Timothy M.; David Jacobson; Michael

Rohwer; Akachi Imegwu Subject: RE: reductions data

Hi Chris and Tim -

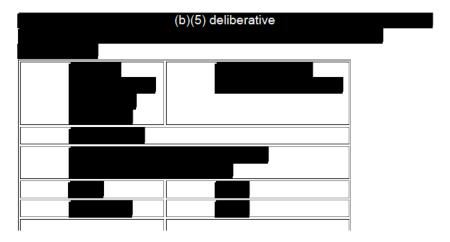
I just wanted to close the loop on the call we had about the Subpart W

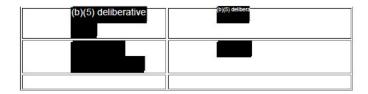
(b)(5) deliberative emission factors from GRI. Thanks again for

flagging this and feel free to reach out if you have any questions or if you find anything else that looks awry.

Best wishes,

Mark





Mark de Figueiredo, J.D., Ph.D. Climate Change Division U.S. Environmental Protection Agency (202) 343-9928

"Minnucci, Chris A." ---08/14/2012 05:17:50 PM---Mark,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Mark DeFigueiredo/DC/USEPA/US@EPA, "Kidman, Timothy M."

<TIMOTHY.M.KIDMAN@saic.com>
Cc: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/14/2012 05:17 PM Subject: RE: reductions data

Mark,

Yes, we'd be happy to go over this with you. I am going to have my colleague Tim Kidman join the call and lead you through this, as he is the person who discovered the potential issue here.

Does 12:30 tomorrow work? If so, would you like us to set up a conference call on SAIC's line?

thanks, Chris

From: Mark DeFigueiredo [mailto:DeFigueiredo.Mark@epamail.epa.gov]

Sent: Tue 8/14/2012 4:37 PM

To: Minnucci, Chris A.; Kidman, Timothy M.

Cc: Melissa Weitz

Subject: Fw: reductions data

Dear Chris.

Melissa forwarded your note about the possible issue you found with the Subpart W emission factors. I'd be interested in having a call with you (along with a couple of my GHG Reporting Program colleagues) so that you could walk us through the exercise that you did. Are you available for a 30 minute call? We're free during the following time slots (eastern time):

Wednesday 8/14: Noon-1, 4:30-5 Thursday 8/15: Noon-1, 4-5

Thanks! Mark

Mark de Figueiredo, J.D., Ph.D.

Climate Change Division U.S. Environmental Protection Agency (202) 343-9928

---- Forwarded by Melissa Weitz/DC/USEPA/US on 08/14/2012 09:05 AM -----

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/13/2012 06:06 PM Subject: RE: RE: reductions data

Melissa.

In reviewing materials for one of the options papers,

(b)(5) deliberative

Please see the

attached writeup from Tim for a more detailed explanation. We wanted to pass this on to you ASAP so you could alert the appropriate Subpart W folks at EPA.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Mon 8/13/2012 9:06 AM

To: Minnucci, Chris A.

Subject: Re: RE: reductions data

How about 2PM?

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

-----"Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/13/2012 07:57AM Subject: RE: reductions data

Melissa,

Tuesday is fine, I'll be available anytime after 9:30 so just let me know.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/10/2012 6:18 PM To: Minnucci, Chris A.

Subject: RE: reductions data

I'm out of the office Monday. How is Tuesday?

"Minnucci, Chris A." ---08/08/2012 08:02:43 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/08/2012 08:02 PM Subject: RE: reductions data

Melissa,

Friday afternoon is not good for me. How does Monday look for you?

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 5:53 PM

To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data

Hi,

I'm out of the office tomorrow, but I am available Friday afternoon. Would 4PM work?

Melissa

"Minnucci, Chris A." ---08/08/2012 05:45:12 PM---Melissa, Yes I would like to discuss this, please let me know when you might be available this week.

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data

Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

Chris

----Original Message-----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 4:40 PM

To: Minnucci, Chris A.

Cc: Kidman, Timothy M. Subject: reductions data

Hello,

Attached below is the reductions data. Its format is not great...

To get data on the production sector, filter by BMP. The BMP's starting with "PROD" are the production activities.

The 4 PROD BMPs are below

BMP

PROD1 Identify and Replace High-Bleed Pneumatic Devices
PROD2 Install Flash Tank Separators on Glycol Dehydrators
PROD3 Partner Reported Opportunities (sort by activity name. includes artificial lifts, install flares (some of which are at completions),
perform reduced emissions completions for hydraulically fractured gas wells)

PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)
[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

=(See attached file: Image. 1344863195589.gif)(See attached file: Subpart W Conversion





Example.docx) ecblank.gif graycol.gif



discussion of ERG feedback on memos before Melissa's leave

Fri 08/24/2012 10:00 AM - 11:00 AM

Attendance is required for Melissa Weitz Chair: Paula.Fields@erg.com

Location:

(b)(6) privacy pin: (b)(6) privacy

This entry has an alarm. The alarm will go off 30 minutes before the entry starts.

Required:

Jessica Gray@erg.com, Paula Fields@erg.com, Clint Burklin@erg.com, weitz melissa@epa.gov, Leif

Hockstad/DC/USEPA/US

Time zones:

This entry was created in a different time zone. The time in that time zone is: Fri 08/24/2012 7:00 AM PDT

- 8:00 AM PDT

Description

Agenda:

- >Review initial draft of ERG's well counts memo
- >Review initial ERG comments on SAIC memos (well completions and workovers; liquids unloading)
- >Review initial draft of ERG's work plan
- >Other items TBD

Paula G. Fields Principal Air Quality Engineer **ERG** 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593 Cell phone: 916-835-0341

Fax: 916-859-0185

Personal Notes	



Re: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on Natural Gas in the Inventory of U.S. GHG

Emissions and Sinks
Bill Irving to: GHGInventory

08/20/2012 05:50 PM

Cc: Melissa Weitz

History: This message has been forwarded.

Some comments below - I think it's probably a bit too much information put into an email, so I made it more general.

Also, we need to edit into the agenda the "panel" on fracturing, and discuss the best way to manage questions. Let's catch up on it tomorrow.

GHGInventory -I just wanted to quickly run this note by you... 08/20/2012 05:40:02 PM

From: GHGInventory

To: Bill Irving/DC/USEPA/US@EPA

Date: 08/20/2012 05:40 PM

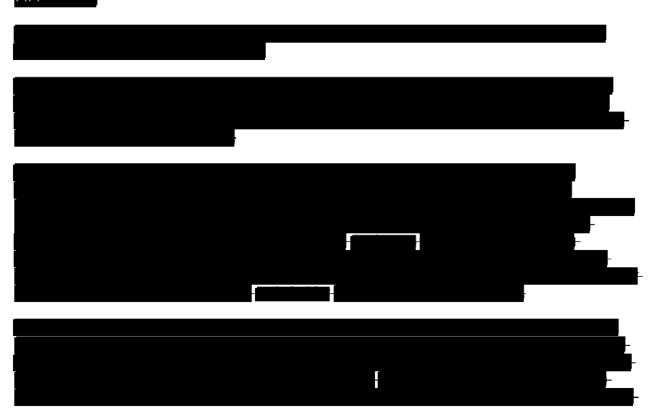
Subject: Re: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on

Natural Gas in the Inventory of U.S. GHG Emissions and Sinks

Sent by: Melissa Weitz

--I just wanted to quickly run this note by you before I send it out. Does this look okay?

(b)(5) deliberative



(b)(5) deliberative

Thank you, Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

Karin Ritter Karin Ritter < Ritterk@api.org 08/08/2012 11:47:50 AM



Fw: Presentation from Rob Sutton explaining 90% of wells require liquids unloading from ALRDC

Suzanne Waltzer to: Melissa Weitz

08/21/2012 03:43 PM

History:

This message has been replied to and forwarded.

---- Forwarded by Suzanne Waltzer/DC/USEPA/US on 08/21/2012 03:41 PM -----

From: "Stricklin, Eric" < Eric. Stricklin@icfi.com>

To: "Cacho, Mariella" <Mariella.Cacho@icfi.com>, Suzanne Waltzer/DC/USEPA/US@EPA, Melissa

Weitz/DC/USEPA/US@EPA, Alex Macpherson/RTP/USEPA/US@EPA, Bruce

Moore/RTP/USEPA/US@EPA

Date: 06/06/2012 10:24 AM

Subject: Presentation from Rob Sutton explaining 90% of wells require liquids unloading from ALRDC

Eric Stricklin | Analyst | 703.218.2505 | estricklin@icfi.com ICF INTERNATIONAL | 9300 Lee Highway, Fairfax VA 22031 | www.icfi.com



US Gas Production Overview (ALRDC).ppt

http://www.aogr.com/index.php/magazine/cover-story/artificial-lift-advances-address-challenges-trends-in-gas-well-deliquificat

http://www.alrdc.com/production/



RE: update on registration Minnucci, Chris A. to: Melissa Weitz

08/21/2012 04:23 PM

History:

This message has been forwarded.

Melissa,

Attached please find the Liquids Unloading paper, addressing the latest round of comments. I made some assumptions in the case of comments I was unsure about; these are described in my replies in green font inside the comment bubbles.



Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tue 8/21/2012 1:53 PM

To: Melissa Weitz

Cc: Martin, Alina D.; Minnucci, Chris A. Subject: RE: update on registration

On timing---If it's at all possible to get this by 4 today, that'd be great!

Thanks, Melissa

Melissa Weitz---08/21/2012 12:55:31 PM---Thank you Alina! Could you please update the registration website with the address of the workshop:

From: Melissa Weitz/DC/USEPA/US

To: "Martin, Alina D." <ALINA.D.MARTIN@saic.com> Cc: "Minnucci, Chris A." <CHRIS.A.MINNUCCI@saic.com>

Date: 08/21/2012 12:55 PM Subject: RE: update on registration Could you please update the registration website with the address of the workshop:

U.S. EPA 1310 L St. NW Washington DC 20005

Also, could you please send me the information for the webinar so we can add that to our website?

Thanks! Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

"Martin, Alina D." ---08/20/2012 01:12:36 PM---Hi Melissa,

From: "Martin, Alina D." <ALINA.D.MARTIN@saic.com> To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/20/2012 01:12 PM Subject: RE: update on registration

Hi Melissa,

Attached is the latest registration spreadsheet. There are 42 registrants.

Thanks, Alina

Alina Martin | SAIC

Section Manager | Energy, Environment & Infrastructure Solutions office: 858.312.8983 | mobile: 571.244.1582 | email: martinali@saic.com

Please consider the environment before printing this email.

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Monday, August 20, 2012 10:36 AM

To: Martin, Alina D.

Subject: update on registration

Hi Alina,

Could you please send me updated information on registration?

I'm planning to send out a reminder note today and do some follow-up calls.

Thanks!

Melissa

Melissa M. Weitz
U.S. Environmental Protection Agency
Climate Change Division
(202) 343-9897
Weitz.Melissa@epa.gov[attachment "2012 Stakeholder Workshop on Natural Gas Registration 08-20-12.xlsx" deleted by Melissa

Weitz/DC/USEPA/US1 graycol.gif (b)(5) deliberative

Liquids Unloading Memo_SAIC re-structure_v7.docx

Fw: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on Natural Gas in the Inventory of U.S. GHG Emissions and Sinks

Melissa Weitz to: Leif Hockstad 08/22/2012 11:31 AM

Got the API slides.

---- Forwarded by Melissa Weitz/DC/USEPA/US on 08/22/2012 11:31 AM -----

From: Karin Ritter < Ritterk@api.org>

To: Melissa Weitz/DC/USEPA/US@EPA, GHGInventory@EPA

Date: 08/22/2012 11:26 AM

Subject: RE: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on

Natural Gas in the Inventory of U.S. GHG Emissions and Sinks

Melissa,

As follow-up to my voicemail yesterday, attached is the presentation I gave at the EPA Emission Inventory conference last week in Tampa. This presentation should give you a pretty good idea of what we will be presenting (in 3 separate presentations) for re-fracture rates for unconventional wells, gas well counts and count of gas well completions.

Enjoy your vacation,

Karin

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.qov] On Behalf Of GHGInventory

Sent: Tuesday, August 21, 2012 11:11 AM

To: Karin Ritter

Cc: Bill Irving; GHGInventory

Subject: Re: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on

Natural Gas in the Inventory of U.S. GHG Emissions and Sinks

Dear Karin,

Thank you for API's offer to present at EPA's Stakeholder Workshop on Natural Gas in the Inventory of U.S. Greenhouse Gas Emissions and Sinks.

We are in the process of finalizing the agenda, and wanted to notify you that EPA is pleased to invite you to present on the four subject areas you identified.

The API presentations on gas well counts, liquids unloading, and completions and workovers with hydraulic fracturing will all be scheduled on September 13.

We anticipate that there will be approximately 10-15 minutes for each presentation, with additional time for questions and discussion.

It would be great if we could have a quick call this week to discuss the sessions in which you'll be presenting. Please feel free to call me at 202-343-9897, or send me your availability to schedule a call.

Thank you, Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

** Karin Ritter ---08/08/2012 11:47:50 AM---Karin Ritter <Ritterk@api.org>

.

Karin Ritter <ritterk@api.org :<br="">></ritterk@api.org>	То	GHGInventory@EPA
08/08/2012 11:47	сс	Melissa Weitz/DC/USEPA/US@EPA, Bill Irving/DC/USEPA/US@EPA
AM	Subject	SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on Natural Gas in the Inventory of U.S. GHG Emissions and Sinks

For your consideration, <u>attached</u> is a list of new data items and emissions information for potential presentation at EPA's September Stakeholder workshop. A brief description is included for each item.

Also for your consideration, the following additional agenda items are proposed for the EPA workshop:

- Discussion on how EPA intends to use data reported for Subpart W to update the national GHG inventory, particularly activity information.
- Discussion on how EPA will revise the presentation of emission reductions (reductions from both industry and regulatory programs) in the inventory.
- Discussion on how EPA will incorporate information from the API/ANGA study into the inventory.

Karin Ritter

Regulatory and Scientific Affairs

+1 (202) 682- 8472

www.api.org

cid:image001.jpg@01CBDCBF.CB339250

******	ATTACHMENT	TOM	DELIVERED

This Email message contained an attachment named image001.jpg

which may be a computer program. This attached computer program could

contain a computer virus which could cause harm to EPA's computers,

network, and data. The attachment has been deleted.

This was done to limit the distribution of computer viruses introduced

into the EPA network. EPA is deleting all computer program attachments

sent from the Internet into the agency via Email.

If the message sender is known and the attachment was legitimate, you

should contact the sender and request that they rename the file name

extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2}$

rename the file extension to its correct name.

For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

*******	ATTACHMENT	TOM	DELIVERED

This Email message contained an attachment named image001.jpg

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extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can

rename the file extension to its correct name.

For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

(See attached file: Stakeholder Workshop API Topics 8Aug12.docx)

API Ritter GHG Natural Gas Tampa FINAL AUG2012 (notes)TMS (2).pps

Re: Fw: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on Natural Gas in the Inventory of U.S. GHG Emissions and Sinks

Melissa Weitz to: Leif Hockstad 08/22/2012 11:38 AM

Right--these are the slides from Tampa.

Leif Hockstad As you can see from the file title, it looks like... 08/22/2012 11:35:13 AM

From:

Leif Hockstad/DC/USEPA/US

To:

Melissa Weitz/DC/USEPA/US@EPA

Date:

08/22/2012 11:35 AM

Subject:

Re: Fw: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on

Natural Gas in the Inventory of U.S. GHG Emissions and Sinks

As you can see from the file title, it looks like she will be presenting what she showed in Tampa last week at the OAQPS conference.

I'll still send along the link to the SRA FTP site, if that helps.

Maliana Maita	Got the API slides Forwarded by Meliss. 08/22/2012 11:31:31 AM
Melissa Weitz	Got the API slides Forwarded by Meliss 08/22/2012 11:31:31 AM



RE: Registration Update Minnucci, Chris A. to: Melissa Weitz

08/23/2012 12:37 PM

History:

This message has been replied to and forwarded.

Melissa,





From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/22/2012 4:22 PM

To: Minnucci, Chris A. Cc: Martin, Alina D.

Subject: RE: Registration Update

Leif and I will be in Leif's office. Can you give us a call there at 4:30? 202-343-9432

Thanks!

"Minnucci, Chris A." ---08/22/2012 01:50:09 PM---excellent, we'll talk to you and Leif then

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Martin, Alina D." <ALINA.D.MARTIN@saic.com>

Date: 08/22/2012 01:50 PM Subject: RE: Registration Update

excellent, we'll talk to you and Leif then

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/22/2012 1:43 PM

To: Minnucci, Chris A. Cc: Martin, Alina D.

Subject: RE: Registration Update

That's a great plan. I have time and Leif Hockstad will also be joining me.

"Minnucci, Chris A." ---08/22/2012 01:38:39 PM---Melissa,

From: "Minnucci, Chris A." <CHRIS.A.MINNUCCI@saic.com>

To: "Martin, Alina D." <ALINA.D.MARTIN@saic.com>, Melissa Weitz/DC/USEPA/US@EPA

Date: 08/22/2012 01:38 PM Subject: RE: Registration Update

Melissa,

I just talked to Alina, and she said she just needs about 15 minutes to go over some items, so one thought I had was that she could join our 4:30 conference call. But then we would still need time to go over the technical stuff, and I don't know how much time you have at 4:30. So I'm just suggesting this as one possibility.

Alternatively you could schedule something separately with Alina; she said her schedule is pretty open for a call.

Please let us know whether 4:30 today or a separate call works best for you.

thanks, Chris

From: Martin, Alina D.

Sent: Wed 8/22/2012 1:21 PM

To: Melissa Weitz (Weitz.Melissa@epamail.epa.gov)

Cc: Minnucci, Chris A.
Subject: Registration Update

Hi Melissa.

There are now 48 people registered for the workshop. Attached is the latest list.

Do you have some time for a brief call with me this week to review the remaining workshop support that will take place over the next 2 weeks? I know you will be out of the office and I'd just like to touch base to discuss remaining tasks.

Thanks, Alina

Alina Martin | SAIC

Section Manager | Energy, Environment & Infrastructure Solutions office: 858.312.8983 | mobile: 571.244.1582 | email: martinali@saic.com

Please consider the environment before printing this email.

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]
(b)(5) deliberative

graycol.gif OtherSources_v13.docx



Re: quick check in on subpart W/inventory

Bill Irving to: Melissa Weitz

Cc: Leif Hockstad

History: This m

This message has been forwarded.

Sure, please schedule an appt.

Chief - Climate Policy Branch, Climate Change Division, USEPA tel +1 202 343-9065 - mobile +1 202 341 3384

Melissa Weitz ICF and SAIC are doing crosswalks of subpa... 08/23/2012 01:34:46 PM

From: Melissa Weitz/DC/USEPA/US

To: Bill Irving/DC/USEPA/US@EPA, Leif Hockstad/DC/USEPA/US@EPA

Date: 08/23/2012 01:34 PM

Subject: quick check in on subpart W/inventory

ICF and SAIC are doing crosswalks of subpart W and the Inventory, and including this info in the memos. I received odd emails from both ICF and SAIC on this topic this week and wanted to run them by you.

Can we check in for about 15 mins on this this afternoon?

I pasted the text of both emails below...

SAIC:



08/23/2012 01:36 PM



ICF:

Regarding the other work on crosswalking, we gave this very serious consideration as to how to do the (b)(5) deliberative

(b)(5) deliberative



RE: centrifugal compressors

Robinson, Donald to: Melissa Weitz, Stricklin, Eric Hemant, Seastream, Sandra

, Mallya,

08/23/2012 02:10 PM

Cc: Akachi Imegwu, Leif Hockstad

History: This message has been forwarded.

Melissa, et al:	(b)(5) deliberative

(b)(5) deliberative

Regards: Don

Donald Robinson Vice President ICF International 703-218-2512 703-934-3915 fax

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Thursday, August 23, 2012 11:01 AM

To: Robinson, Donald; Stricklin, Eric; Mallya, Hemant; Seastream,

Sandra

Cc: Akachi Imegwu; Leif Hockstad Subject: centrifugal compressors

Hi Don,

In the memos (I think it was all three memos) there was a question on centrifugal compressors emissions factors (pasted below also).

When you develop the write up on that, or when you find the memo that ICF developed on that issue specifically, can you please email that information to Leif and me. If it is coming over with the revised memos, just highlight in your email where the information is. If for some reason the memos are delayed, we'll need to have this information by Friday.

Thanks, Melissa



(b)(5) deliberative

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

"" "Robinson, Donald" ---08/17/2012 06:07:12 PM---Melissa, We will take a look at your comments here and if necessary, get back to you early next week

From: "Robinson, Donald" < Donald. Robinson@icfi.com>

To: Melissa Weitz/DC/USEPA/US@EPA, Akachi Imegwu/DC/USEPA/US@EPA Cc: "Seastream, Sandra" <Sandra.Seastream@icfi.com>, "Mallya, Hemant" <

Hemant.Mallya@icfi.com>, "Stricklin, Eric" < Eric.Stricklin@icfi.com>

Date: 08/17/2012 06:07 PM Subject: RE: update on memos?

Melissa,

We will take a look at your comments here and if necessary, get back to you early next week on clarifications. I am reviewing the Transmission sector methodology memo now and hope to get that to you by Monday morning.

(b)(E) deliberative

(b)(b) deliberative	
	į



Regards:

Don

Donald Robinson

Vice President ICF International 703-218-2512 703-934-3915 fax

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Friday, August 17, 2012 1:09 PM

To: Robinson, Donald; Akachi Imegwu; Stricklin, Eric; Mallya, Hemant;

Seastream, Sandra

Subject: RE: update on memos?

Hello all,

Attached below is the fact sheet on the Processing sector, with my comments. This also looked great.

One area that I'd like to see clarified is (b)(5) deliberative

(b)(5) deliberative

(b)(5) deliberative

If it's possible to have a quick check-in call this afternoon, that'd be great. I'd also like to set one up for next week. Perhaps Tuesday. Please let me know your availability-my schedule is fairly open.

Thanks, Melissa

(See attached file: Inventory Methodology Memo - Processing 08142012 mw (Repaired) mw.docx)

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

Melissa Weitz---08/14/2012 04:42:18 PM---These look really great--thank you! I've made a few edits and added some questions to the Distributi

From: Melissa Weitz/DC/USEPA/US

To: "Robinson, Donald" <Donald.Robinson@icfi.com>

Cc: Akachi Imegwu/DC/USEPA/US@EPA, "Stricklin, Eric" <Eric.Stricklin@icfi.com>, "Mallya, Hemant" <Hemant.Mallya@icfi.com>, "Seastream, Sandra" <Sandra.Seastream@icfi.com>

Date: 08/14/2012 04:42 PM Subject: RE: update on memos?

These look really great--thank you!

I've made a few edits and added some questions to the Distribution Sector Fact Sheet. I will send over edits/questions to the Gas Processing Plants memo today or tomorrow.

I'm free tomorrow after 3 for a check-in call. If tomorrow doesn't work, my schedule is very open on Thursday. I'd like a status update on the Subpart W/Inventory crosswalk tomorrow, which you can email me if we don't talk tomorrow. Based on the memos, it appears that the work is all done on the crosswalk, it may just be a matter of adding it to the spreadsheet?

Thanks, Melissa

[attachment "Inventory Methodology Memo-Distribution mk 081412 (Autosaved) mw.docx" deleted by Melissa Weitz/DC/USEPA/US]

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

"Robinson, Donald" ---08/14/2012 01:02:00 PM---Melissa, Attached are the memos for methodologies for Processing and Distribution. We are completing

From: "Robinson, Donald" < Donald. Robinson@icfi.com>

To: Melissa Weitz/DC/USEPA/US@EPA, Akachi Imegwu/DC/USEPA/US@EPA

Cc: "Stricklin, Eric" < Eric. Stricklin@icfi.com>, "Mallya, Hemant" < Hemant. Mallya@icfi.com>,

"Seastream, Sandra" <Sandra.Seastream@icfi.com>

Date: 08/14/2012 01:02 PM Subject: RE: update on memos?

Melissa,

Attached are the memos for methodologies for Processing and Distribution. We are completing the Transmission sector and should have that for you late today or early tomorrow. We can have a call anytime you wish, with exception of 2-2:30 and 4:30 to 5, when I have calls with Roger and Carey already scheduled today.

Regards:

Don

Donald Robinson

Vice President ICF International 703-218-2512 703-934-3915 fax

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tuesday, August 14, 2012 12:46 PM

To: Robinson, Donald

Cc: Stricklin, Eric; Mallya, Hemant Subject: RE: update on memos?

To clarify, are you sending the memos at 1:30PM or are we having a check in call at 1:30PM (or both)?

"Robinson, Donald" ---08/14/2012 10:21:22 AM---Melissa, Yes, 1:30 PM today works for at least Processing, and Transmission and Distribution are in

From: "Robinson, Donald" < Donald. Robinson@icfi.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Mallya, Hemant" < Hemant.Mallya@icfi.com>, "Stricklin, Eric" < Eric.Stricklin@icfi.com>

Date: 08/14/2012 10:21 AM Subject: RE: update on memos?

Melissa,

Yes, 1:30 PM today works for at least Processing, and Transmission and Distribution are in the works, one or both might be done by then.

Don

Donald Robinson

Vice President ICF International 703-218-2512 703-934-3915 fax

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Tuesday, August 14, 2012 9:04 AM

To: Robinson, Donald

Subject: update on memos?

Hi Don,

Can you let me know when you are planning to send the memos over?

Does 1:30 today still work for your group?

Thanks!

Melissa

"Robinson, Donald" ---08/10/2012 05:26:10 PM---Okay, Tuesday at 1:30 PM will be the target. Don

From: "Robinson, Donald" < Donald. Robinson@icfi.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: Akachi Imegwu/DC/USEPA/US@EPA, "Stricklin, Eric" <Eric.Stricklin@icfi.com>, "Mallya,

Hemant" < Hemant. Mallya@icfi.com>

Date: 08/10/2012 05:26 PM Subject: RE: reductions spreadsheet Okay, Tuesday at 1:30 PM will be the target.

Don

Donald Robinson

Vice President ICF International 703-218-2512 703-934-3915 fax

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Friday, August 10, 2012 5:17 PM

To: Robinson, Donald

Cc: Akachi Imegwu; Stricklin, Eric; Mallya, Hemant

Subject: RE: reductions spreadsheet

Would 1:30PM be okay?

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

"Robinson, Donald" ---08/10/2012 05:15:56 PM---Oh, we crossed in the email. Yes, Tuesday afternoon, possibly earlier is a good target. Regards:

From: "Robinson, Donald" < Donald. Robinson@icfi.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: Akachi Imegwu/DC/USEPA/US@EPA, "Stricklin, Eric" <Eric.Stricklin@icfi.com>, "Mallya,

Hemant" < Hemant. Mallya@icfi.com>

Date: 08/10/2012 05:15 PM Subject: RE: reductions spreadsheet

Oh, we crossed in the email. Yes, Tuesday afternoon, possibly earlier is a good target.

Regards:

Don

Donald Robinson

Vice President ICF International 703-218-2512

703-934-3915 fax

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Friday, August 10, 2012 5:14 PM

To: Robinson, Donald

Cc: Akachi Imegwu; Stricklin, Eric; Mallya, Hemant

Subject: RE: reductions spreadsheet

Hi Don,

Sorry--the last few hours were filled up with meetings.

Can we try for Tuesday afternoon?

Thanks! Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

"Robinson, Donald" ---08/10/2012 03:07:21 PM---Melissa, Eric is off today, traveling to a wedding. Hemant is also off, this being a Hindu holiday.

From: "Robinson, Donald" < Donald. Robinson@icfi.com>

To: Melissa Weitz/DC/USEPA/US@EPA, "Stricklin, Eric" <Eric.Stricklin@icfi.com> Cc: "Mallya, Hemant" <Hemant.Mallya@icfi.com>, Akachi Imegwu/DC/USEPA/US@EPA

Date: 08/10/2012 03:07 PM Subject: RE: reductions spreadsheet

Melissa,

(b)(6) privacy

I am covering for both. I am available this afternoon if you want to talk. We have a deliverable due to you today that I am expecting any time now to review and send along.

Regards:

Don

Donald Robinson

Vice President

ICF International

703-218-2512 703-934-3915 fax

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Friday, August 10, 2012 3:04 PM

To: Stricklin, Eric

Cc: Robinson, Donald; Mallya, Hemant; Akachi Imegwu

Subject: RE: reductions spreadsheet

Hi Eric,

We heard a lot of stakeholder feedback that they'd like to see reductions presented for each source in the Inventory, not just at the sector-level.

So, for the background memo, we'd like to present the reductions for each source, to show how total net emissions for each source could be calculated if we were to go that route.

Are you free later this afternoon for a check-in call? If not, let's set something up for Tuesday.

Thanks! Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

"Stricklin, Eric" ---08/09/2012 09:29:29 AM---Melissa, In the memos, I was planning on keeping the discussion about reductions brief since they ar

From: "Stricklin, Eric" <Eric.Stricklin@icfi.com>
To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Mallya, Hemant" <Hemant.Mallya@icfi.com>, "Robinson, Donald" <

Donald.Robinson@icfi.com> Date: 08/09/2012 09:29 AM Subject: RE: reductions spreadsheet

Melissa,

In the memos, I was planning on

(b)(5) deliberative

(b)(5) deliberative

Did you have something else in mind?

Best,

Eric

Eric Stricklin | Analyst | 703.218.2505 | eric.stricklin@icfi.com ICF INTERNATIONAL | 9300 Lee Highway, Fairfax VA 22031 | www.icfi.com

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wednesday, August 08, 2012 6:00 PM

To: Stricklin, Eric; Mallya, Hemant Subject: Fw: reductions spreadsheet

Hello,

GasStar just pulled a version of the reduction data for us to use in developing the memos. Please use the version attached below to show reduction numbers for the memo.

Let me know if you have any questions.

Thanks! Melissa

(See attached file: Excel862012155416 1_abbcb.xlsx) [attachment "Inventory Methodology Memo - Processing 08142012.docx" deleted by Melissa Weitz/DC/USEPA/US] [attachment "Inventory Methodology Memo-Distribution mk 081412.docx" deleted by Melissa Weitz/DC/USEPA/US]



draft work plan and well counts memo

Paula Fields to: Melissa Weitz

Cc: "Casey MacQueen", "Jessica Gray", "Marty Wolf"

History:

This message has been replied to and forwarded.

Hi Melissa -

I'm sending you the draft work plan and ERG's initial well counts memo. A little later today I'll send our comments on the well completions/workovers and liquids unloading memos.

Please let me know if you have any questions.

Thanks, -Paula

Paula G. Fields Principal Air Quality Engineer ERG 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593

Cell phone: 916-835-0341

Fax: 916-859-0185

(b)(5) deliberative

ERG_Draft Work Plan_GHGEI for NG and Petroleum Sys_082312.pdf

(b)(5) deliberative

Well Counts Memo-ERG.2012.08.23.docx

08/23/2012 04:20 PM



ERG comments on completions/workovers and liquids unloading memos

Paula Fields to: Melissa Weitz

08/23/2012 06:11 PM

History:

Cc: "Casey MacQueen", "Jessica Gray", "Marty Wolf"

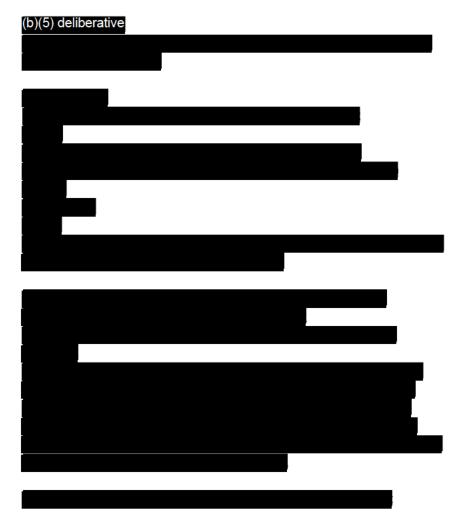
This message has been forwarded.

Hi Melissa -

Attached are the memos with our comments added to yours. Please let us know if you have any questions about these, and we'll be happy to answer them.

We didn't add much to your liquids unloading comments. Most of our input is on completions/workovers.

Tomorrow, in addition to everything else, we should talk about initiating work to develop the number of well completions with hydraulic fracturing from HPDI. Here's the approach we came up with. If you agree, then we can develop a LOE and estimate for when we can deliver the output.



Thanks, and talk to you tomorrow morning! -Paula

Paula G. Fields Principal Air Quality Engineer **ERG** 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670

Office phone: 916-635-6593 Cell phone: 916-835-0341

Fax: 916-859-0185

(b)(5) del berative

Completion Workover Memo_SAIC re-structure v2 MW comments ERG Comments.docx

Liquids Unloading Memo_SAIC re-structure_v4 MW comments_ERG Comments.docx



RE: Registration Update Minnucci, Chris A. to: Melissa Weitz

Cc: Leif Hockstad, BrianB Cook

History:

This message has been forwarded.

Thank you very much Melissa.

Leif and Brian, I look forward to talking with you next week. My schedule is pretty open at this point so just let me know a time convenient for you.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Thu 8/23/2012 6:04 PM

To: Minnucci, Chris A.

Cc: Leif Hockstad; BrianB Cook Subject: RE: Registration Update

Hi Chris.



Thanks, Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

"Minnucci, Chris A." ---08/23/2012 12:37:45 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/23/2012 12:37 PM Subject: RE: Registration Update

Melissa,

08/23/2012 06:17 PM



(b)(5) deliberative



Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/22/2012 4:22 PM

To: Minnucci, Chris A. Cc: Martin, Alina D.

Subject: RE: Registration Update

Leif and I will be in Leif's office. Can you give us a call there at 4:30? 202-343-9432

Thanks!

thanks, Chris

"Minnucci, Chris A."08/22/2012 01:50:09 PMexcellent, we'll talk to you and Leif then	
From: "Minnucci, Chris A." <chris.a.minnucci@saic.com> To: Melissa Weitz/DC/USEPA/US@EPA Cc: "Martin, Alina D." <alina.d.martin@saic.com> Date: 08/22/2012 01:50 PM</alina.d.martin@saic.com></chris.a.minnucci@saic.com>	
Subject: RE: Registration Update	
excellent, we'll talk to you and Leif then	
From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov] Sent: Wed 8/22/2012 1:43 PM	
To: Minnucci, Chris A.	
Cc: Martin, Alina D. Subject: RE: Registration Update	
That's a great plan. I have time and Leif Hockstad will also be joining me.	
"Minnucci, Chris A."08/22/2012 01:38:39 PMMelissa,	
From: "Minnucci, Chris A." <chris.a.minnucci@saic.com> To: "Martin, Alina D." <alina.d.martin@saic.com>, Melissa Weitz/DC/USEPA/US@EPA Date: 08/22/2012 01:38 PM</alina.d.martin@saic.com></chris.a.minnucci@saic.com>	
Subject: RE: Registration Update	
Molione	
Melissa,	
I just talked to Alina, and she said she just needs about 15 minutes to go over some items, so one thought I had was that she could join our 4:30 conference call. But then we would still need time to go over the technical stuff, and I don't know how much time you have at 4:30. So I'm just suggesting this as one possibility.	
Alternatively you could schedule something separately with Alina; she said her schedule is pretty open for a call.	
Please let us know whether 4:30 today or a separate call works best for you.	

From: Martin, Alina D.

Sent: Wed 8/22/2012 1:21 PM

To: Melissa Weitz (Weitz.Melissa@epamail.epa.gov)

Cc: Minnucci, Chris A.

Subject: Registration Update

Hi Melissa,

There are now 48 people registered for the workshop. Attached is the latest list.

Do you have some time for a brief call with me this week to review the remaining workshop support that will take place over the next 2 weeks? I know you will be out of the office and I'd just like to touch base to discuss remaining tasks.

Thanks, Alina

Alina Martin | SAIC

Section Manager | Energy, Environment & Infrastructure Solutions office: 858.312.8983 | mobile: 571.244.1582 | email: martinali@saic.com

Please consider the environment before printing this email.

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US] [attachment "OtherSources v13.docx" deleted by Melissa

Weitz/DC/USEPA/US] graycol.gif

Re: Fw: Presentation from Rob Sutton explaining 90% of wells require liquids unloading from ALRDC

Melissa Weitz to: Suzanne Waltzer

08/23/2012 06:58 PM

Hi Suzie,

I did not get a chance to follow up with Eric/Rob on this and I need to head back to NJ tomorrow now, so I will be out of the office tomorrow.

For the liquids unloading piece in the presentation, let's leave options in there for now, and then meet when I am back to figure out how we want to present a preferred approach if we have one.

You (only you! :)) can contact me at (b)(6) privacy if you have questions. My guess is that I'll have a lot of downtime and I won't mind checking in on some things.

Also, I can find time to talk Monday, or even Tuesday while I'm waiting at the airport. Let me know. I don't want to leave you stuck sorting out something obnoxious on liquids unloading or anything!

Melissa

Suzanne Waltzer	Forwarded by Suzanne Waltzer/DC/US 08/21/2012 03:43:36 PM

From: Suzanne Waltzer/DC/USEPA/US
To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/21/2012 03:43 PM

Subject: Fw: Presentation from Rob Sutton explaining 90% of wells require liquids unloading from ALRDC

---- Forwarded by Suzanne Waltzer/DC/USEPA/US on 08/21/2012 03:41 PM ----

From: "Stricklin, Eric" < Eric. Stricklin@icfi.com>

To: "Cacho, Mariella" <Mariella.Cacho@icfi.com>, Suzanne Waltzer/DC/USEPA/US@EPA, Melissa

Weitz/DC/USEPA/US@EPA, Alex Macpherson/RTP/USEPA/US@EPA, Bruce

Moore/RTP/USEPA/US@EPA

Date: 06/06/2012 10:24 AM

Subject: Presentation from Rob Sutton explaining 90% of wells require liquids unloading from ALRDC

Eric Stricklin | Analyst | 703.218.2505 | estricklin@icfi.com

ICF INTERNATIONAL | 9300 Lee Highway, Fairfax VA 22031 | www.icfi.com[attachment "US Gas Production Overview (ALRDC).ppt" deleted by Melissa Weitz/DC/USEPA/US]

http://www.aogr.com/index.php/magazine/cover-story/artificial-lift-advances-address-challenges-trends-in-gas-well-deliquificat

http://www.alrdc.com/production/

Background Memos and Slides

Overview of Natural Gas in the GHG Inventory (slides only) (develop, send to EPA people)

Overview of Production Sector in the GHG Inventory (slides only) (develop, send to EPA people)

Well data (review, send to SAIC?, send slides to ERG)

Liquids Unloading (review, send to ERG, along with slides)

Well Completions and Workovers for Wells with Hydraulic Fracturing (review, send to ERG, along with slides (develop), possibly send to SAIC)

Other Production Sources (review, send to ERG, develop outline for slides)

Distribution (when receive memos from ICF, send to ERG, along with slides)

Transmission and Storage (when receive memos from ICF, send to ERG, along with slides)

Processing (when receive memos from ICF, send to ERG, along with slides)

(Bill, Leif, Suzie K and I met on this today and I want to bring you in the loop)

We have a tight schedule, but we can make edits to anything up until the day before the workshop (I'm not sure that others would agree with that statement, but I do want you to look at everything to some extent before it goes final and if you can't get to it until then, fine). I don't think it's humanly possible for you to review all of these things on this timeline, so prioritize the wells, liquids unloading, and fracking, and then maybe just check for now the general formatting of the other memos and whether the other presentations seem to contain the right information, and wait to review details on the others.

Background Memos and Slides

Overview of Natural Gas in the GHG Inventory (slides only)
Overview of Production Sector in the GHG Inventory (slides only)
Well data
Liquids Unloading
Well Completions and Workovers for Wells with Hydraulic Fracturing
Other Production Sources
Distribution
Transmission and Storage
Processing

Background memos

8/24: All drafts to ERG, Bill, Leif, Suzie K, Suzie W. (some drafts to Carey)

8/28: EPA edits to Leif to send to ERG

8/31: ERG delivers edited memos to EPA (Leif)

9/4: Leif sends all memos to Paul 9/6 (COB): Need comments from Paul

9/6 (COB): Leif sends memos back to ERG to address Paul's edits

9/10: Final memos from ERG to EPA

Presentation slides

8/24: All drafts/outlines to ERG, Bill, Leif, Suzie K, Suzie W. (some drafts to Carey)

8/26: EPA edits to Leif to send to ERG

8/31: ERG delivers edited slides to EPA (Leif)

9/4: Leif sends all slides to Paul

9/6 (COB): Need comments from Paul

9/6 (COB): Leif sends slides back to ERG to address Paul's edits

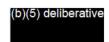
9/10: Final slides from ERG to EPA

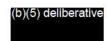
If ERG cannot complete all of this next week, they should prioritize completions/workovers (they've already reviewed this memo, and shouldn't have a problem doing the slides), liquids unloading, and well counts (they are developing this memo).

SAIC and ICF are also available to help.

liquids unloading Melissa Weitz to: Melissa Weitz Cc: (b)(6) privacy

08/23/2012 08:31 PM





Emissions from Well Cleanups 4-4-2011 Docket DRAFT_sms.doc Liquids Unloading 8.23.pptx



Re: draft work plan and well counts memo

Melissa Weitz to: Paula Fields

Cc: Leif Hockstad

08/24/2012 12:24 AM

Thanks Paula,

My comments on the well counts memo are in the attachment.

Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

-----"Paula Fields" < Paula. Fields@erg.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Paula Fields" < Paula. Fields@erg.com>

Date: 08/23/2012 04:20PM

Cc: "Casey MacQueen" < Casey.MacQueen@erg.com>, "Jessica Gray"

<Jessica.Gray@erg.com>, "Marty Wolf" <Marty.Wolf@erg.com>

Subject: draft work plan and well counts memo

Hi Melissa -

I'm sending you the draft work plan and ERG's initial well counts memo. A little later today I'll send our comments on the well completions/workovers and liquids unloading memos.

Please let me know if you have any questions.

Thanks,
-Paula

Paula G. Fields
Principal Air Quality Engineer
ERG
10860 Gold Center Dr., #275
Rancho Cordova, CA 95670
Office phone: 916-635-6593
Cell phone: 916-835-0341
Fax: 916-859-0185

[attachment "ERG_Draft Work Plan_GHGEI for NG and Petroleum Sys_082312.pdf" removed by Melissa Weitz/DC/USEPA/US] [attachment "Well Counts Memo-ERG.2012.08.23.docx" removed by

(b)(5) deliberative

Melissa Weitz/DC/USEPA/US|Well Counts Memo-ERG.2012.08.24.docx



Re: RE: Registration Update
Melissa Weitz to: Minnucci, Chris A.

Cc: Leif Hockstad

Hi Chris,

Below are my comments on the "Other sources" memo.

Let me know if you have any questions. I'll be checking email tomorrow.

Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

----- "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

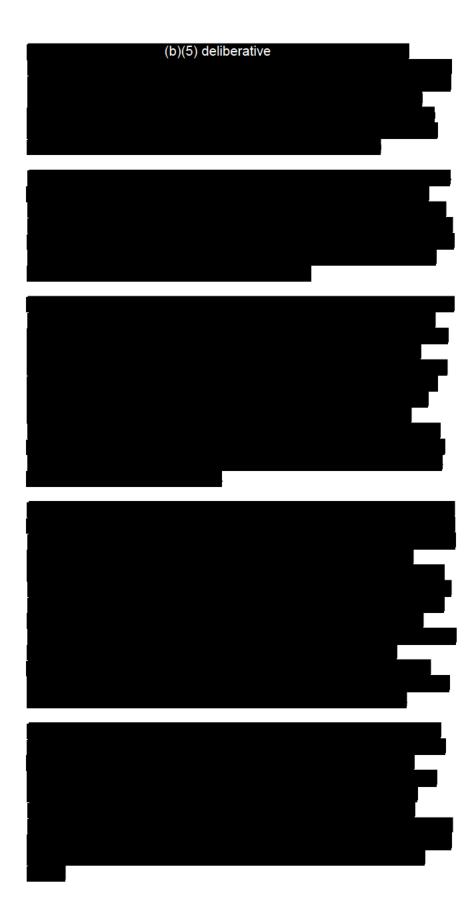
From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/23/2012 12:37PM

Subject: RE: Registration Update

Melissa,

Here's the "Other Sources" paper, with the Subpart W sections included. In general, we found that (b)(5) deliberative





Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/22/2012 4:22 PM

To: Minnucci, Chris A. Cc: Martin, Alina D.

Subject: RE: Registration Update

Leif and I will be in Leif's office. Can you give us a call there at 4:30? 202-343-9432

Thanks!

"Minnucci, Chris A." ---08/22/2012 01:50:09 PM---excellent, we'll talk to you and Leif then _____

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Martin, Alina D." <ALINA.D.MARTIN@saic.com>

Date: 08/22/2012 01:50 PM Subject: RE: Registration Update

excellent, we'll talk to you and Leif then

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/22/2012 1:43 PM

To: Minnucci, Chris A. Cc: Martin, Alina D.

Subject: RE: Registration Update

That's a great plan. I have time and Leif Hockstad will also be joining me.

"Minnucci, Chris A." ---08/22/2012 01:38:39 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: "Martin, Alina D." <ALINA.D.MARTIN@saic.com>, Melissa Weitz/DC/USEPA/US@EPA

Date: 08/22/2012 01:38 PM Subject: RE: Registration Update

Melissa,

I just talked to Alina, and she said she just needs about 15 minutes to go over some items, so one thought I had was that she could join our 4:30 conference call. But then we would still need time to go over the technical stuff, and I don't know how much time you have at 4:30. So I'm just suggesting this as one possibility.

Alternatively you could schedule something separately with Alina; she said her schedule is pretty open for a call.

Please let us know whether 4:30 today or a separate call works best for you.

thanks, Chris

From: Martin, Alina D.

Sent: Wed 8/22/2012 1:21 PM

To: Melissa Weitz (Weitz.Melissa@epamail.epa.gov)

Cc: Minnucci, Chris A. Subject: Registration Update

Hi Melissa,

There are now 48 people registered for the workshop. Attached is the latest list.

Do you have some time for a brief call with me this week to review the remaining workshop support that will take place over the next 2 weeks? I know you will be out of the office and I'd just like to touch base to discuss remaining tasks.

Thanks, Alina

Alina Martin | SAIC

Section Manager | Energy, Environment & Infrastructure Solutions office: 858.312.8983 | mobile: 571.244.1582 | email: martinali@saic.com

Please consider the environment before printing this email.

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

[attachment "OtherSources_v13.docx" removed by Melissa (b)(5) deliberative

Weitz/DC/USEPA/US]OtherSources_v13 8.24.docx



History:

RE: RE: Registration Update Minnucci, Chris A. to: Melissa Weitz

Cc: Leif Hockstad

This message has been forwarded.

Thanks Melissa. These comments are all straightforward, I don't think we'll have any questions (but need to check with Dick on this). We'll get on these today and return a revised paper no later than Wednesday.

Chris

----Original Message----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/24/2012 1:11 AM To: Minnucci, Chris A.

Cc: Leif Hockstad

Subject: Re: RE: Registration Update

Hi Chris,

Below are my comments on the "Other sources" memo.

Let me know if you have any questions. I'll be checking email tomorrow.

Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

----"Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com> <

mailto:CHRIS.A.MINNUCCI@saic.com> wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > <

mailto:CHRIS.A.MINNUCCI@saic.com>

Date: 08/23/2012 12:37PM Subject: RE: Registration Update

Melissa,

	" paper, with the Subpart W sections included. In	
general, we found that	(b)(5) deliberative	
		ŀ

08/24/2012 09:09 AM





From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/22/2012 4:22 PM

To: Minnucci, Chris A. Ce: Martin, Alina D.

Subject: RE: Registration Update

Leif and I will be in Leif's office. Can you give us a call there at 4:30? 202-343-9432

Thanks!

Inactive hide details for "Minnucci, Chris A." ---08/22/2012 01:50:09
PM---excellent, we'll talk to you and Leif then ______ "Minnucci, Chris A." ---08/22/2012 01:50:09 PM---excellent, we'll talk to you and Leif then

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > <

mailto:CHRIS.A.MINNUCCI@saic.com>
To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Martin, Alina D." <ALINA.D.MARTIN@saic.com> <

mailto:ALINA.D.MARTIN@saic.com>

Date: 08/22/2012 01:50 PM Subject: RE: Registration Update

excellent, we'll talk to you and Leif then

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/22/2012 1:43 PM

To: Minnucci, Chris A. Cc: Martin, Alina D.

Subject: RE: Registration Update

That's a great plan. I have time and Leif Hockstad will also be joining me.

"Minnucci, Chris A." ---08/22/2012 01:38:39 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > <

mailto:CHRIS.A.MINNUCCI@saic.com>

To: "Martin, Alina D." <ALINA.D.MARTIN@saic.com> <

mailto:ALINA.D.MARTIN@saic.com>, Melissa Weitz/DC/USEPA/US@EPA

Date: 08/22/2012 01:38 PM Subject: RE: Registration Update

Melissa,

I just talked to Alina, and she said she just needs about 15 minutes to go over some items, so one thought I had was that she could join our 4:30 conference call. But then we would still need time to go over the technical stuff, and I don't know how much time you have at 4:30. So I'm just suggesting this as one possibility.

Alternatively you could schedule something separately with Alina; she said her schedule is pretty open for a call.

Please let us know whether 4:30 today or a separate call works best for you.

thanks, Chris

From: Martin, Alina D. Sent: Wed 8/22/2012 1:21 PM

To: Melissa Weitz (Weitz.Melissa@epamail.epa.gov)

Cc: Minnucci, Chris A. Subject: Registration Update

Hi Melissa,

There are now 48 people registered for the workshop. Attached is the latest list.

Do you have some time for a brief call with me this week to review the remaining workshop support that will take place over the next 2 weeks? I know you will be out of the office and I'd just like to touch base to discuss remaining tasks.

Thanks, Alina

Alina Martin | SAIC

Section Manager | Energy, Environment & Infrastructure Solutions office: 858.312.8983 | mobile: 571.244.1582 | email: martinali@saic.com < mailto:martinali@saic.com>

Please consider the environment before printing this email.

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

[attachment "OtherSources_v13.docx" removed by Melissa Weitz/DC/USEPA/US]

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Image.1345785074098.gif



Re: draft work plan and well counts memo

Paula Fields to: Melissa Weitz

Cc: Leif Hockstad

History:

This message has been forwarded.

OK, thanks. We'll be ready to discuss at 10 am your time.

-Paula

Paula G. Fields Principal Air Quality Engineer Eastern Research Group, Inc. (ERG) 10860 Gold Center Dr., Suite #275 Rancho Cordova, CA 95670 office: 916-635-6593

cell: 916-835-0341 fax: 916-859-0185

>>> Melissa Weitz 08/23/12 9:25 PM >>> Thanks Paula,

My comments on the well counts memo are in the attachment.

Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

-----"Paula Fields" <Paula.Fields@erg.com> wrote: ----To: Melissa Weitz/DC/USEPA/US@EPA

From: "Paula Fields" < Paula. Fields@erg.com>

Date: 08/23/2012 04:20PM

Cc: "Casev MacQueen" < Casev.MacQueen@erg.com >. "Jessica Grav"

<Jessica.Gray@erg.com>, "Marty Wolf" <Marty.Wolf@erg.com>

Subject: draft work plan and well counts memo

Hi Melissa -

I'm sending you the draft work plan and ERG's initial well counts memo. A little later today I'll send our comments on the well completions/workovers and liquids unloading memos.

Please let me know if you have any questions.

Thanks,
-Paula

08/24/2012 09:27 AM

Paula G. Fields Principal Air Quality Engineer ERG 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593 Cell phone: 916-835-0341

Fax: 916-859-0185

[attachment "ERG_Draft Work Plan_GHGEI for NG and Petroleum Sys_082312.pdf" removed by Melissa Weitz/DC/USEPA/US] [attachment "Well Counts Memo-ERG.2012.08.23.docx" removed by Melissa Weitz/DC/USEPA/US]

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Fw: RE: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on Natural Gas in the Inventory of U.S. GHG

Emissions and Sinks

Melissa Weitz to: Paula Fields 08/24/2012 11:04 AM

API slides

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

----Forwarded by Melissa Weitz/DC/USEPA/US on 08/24/2012 11:04AM -----

To: Melissa Weitz/DC/USEPA/US@EPA, GHGInventory@EPA

From: Karin Ritter < Ritterk@api.org>

Date: 08/22/2012 11:26AM

Subject: RE: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on Natural Gas in the Inventory of U.S.

GHG Emissions and Sinks

(See attached file: API_Ritter_GHG Natural Gas_Tampa FINAL_AUG2012 (notes)TMS (2).pps)

Melissa,

As follow-up to my voicemail yesterday, attached is the presentation I gave at the EPA Emission Inventory conference last week in Tampa. This presentation should give you a pretty good idea of what we will be presenting (in 3 separate presentations) for re-fracture rates for unconventional wells, gas well counts and count of gas well completions.

Enjoy your vacation,

Karin

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov] On Behalf

Of GHGInventory

Sent: Tuesday, August 21, 2012 11:11 AM

To: Karin Ritter

Cc: Bill Irving; GHGInventory

Subject: Re: SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on Natural Gas in the Inventory of U.S. GHG Emissions and Sinks

Dear Karin,

Thank you for API's offer to present at EPA's Stakeholder Workshop on Natural Gas in the Inventory of U.S. Greenhouse Gas Emissions and Sinks.

We are in the process of finalizing the agenda, and wanted to notify you that EPA is pleased to invite you to present on the four subject areas you identified.

The API presentations on gas well counts, liquids unloading, and completions and workovers with hydraulic fracturing will all be scheduled on September 13.

We anticipate that there will be approximately 10-15 minutes for each presentation, with additional time for questions and discussion.

It would be great if we could have a quick call this week to discuss the sessions in which you'll be presenting. Please feel free to call me at 202-343-9897, or send me your availability to schedule a call.

Thank you, Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

<Ritterk@api.org>

Karin Ritter ---08/08/2012 11:47:50 AM---Karin Ritter <Ritterk@api.org>

Karin Ritter

08/08/2012 11:47 AM ______

To GHGInventory@EPA

cc Melissa Weitz/DC/USEPA/US@EPA, Bill

Subject SUBMITTING: API Request to Present & Agenda Items: EPA Stakeholder Workshop on Natural Gas in the Inventory

of U.S. GHG Emissions and Sinks

Irving/DC/USEPA/US@EPA

. .

For your consideration, attached is a list of new data items and emissions information for potential presentation at EPA's September Stakeholder workshop. A brief description is included for each item.

Also for your consideration, the following additional agenda items are proposed for the EPA workshop:

- Discussion on how EPA intends to use data reported for Subpart W to update the national GHG inventory, particularly activity information.
- Discussion on how EPA will revise the presentation of emission reductions (reductions from both industry and regulatory programs) in the inventory.
- Discussion on how EPA will incorporate information from the API/ANGA study into the inventory.

Karin Ritter

Regulatory and Scientific Affairs

+1 (202) 682-8472

www.api.org

cid:image001.jpg@01CBDCBF.CB339250

****************** ATTACHMENT NOT DELIVERED *****************

This Email message contained an attachment named image001.jpg

which may be a computer program. This attached computer program could contain a computer virus which could cause harm to EPA's computers, network, and data. The attachment has been deleted.

This was done to limit the distribution of computer viruses introduced into the EPA network. EPA is deleting all computer program attachments sent from the Internet into the agency via Email.

If the message sender is known and the attachment was legitimate, you should contact the sender and request that they rename the file name extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can rename the file extension to its correct name.

For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

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(See attached file: Stakeholder Workshop API Topics 8Aug12.docx)

API Ritter GHG Natural Gas Tampa FINAL AUG2012 (notes)TMS (2).pps

Re: Sept. 13th/14th Nat Gas Workshop Melissa Weitz to: Tasat, Webster@ARB Cc: "Edwards, David@ARB", Leif Hockstad, Bill Irving

08/24/2012 11:52 AM

Hi Webster,

I'll be out of the office on Monday, but Leif Hockstad will follow up with you.

Below is the link to more information on the stakeholder workshop.

http://www.epa.gov/climatechange/ghgemissions/Sept2012stakeholde rworkshop.html

We have some room in our agenda for brief presentations on data related to natural gas emissions, and we'd like to check in with you to see if ARB would like to present information on data currently available to ARB, or upcoming data (through your reporting program, etc.) either on natural gas generally, or in a specific area, such as liquids unloading.

Thanks again for your interest and please let us know if you have questions.

Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

-----"Tasat, Webster@ARB" <wtasat@arb.ca.gov> wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Tasat, Webster@ARB" <wtasat@arb.ca.gov>

Date: 08/24/2012 11:40AM

Cc: "Edwards, David@ARB" <dedwards@arb.ca.gov>

Subject: Sept. 13th/14th Nat Gas Workshop

Hi Melissa,

I wanted to get back to you regarding EPA's workshop on September 13th/14th. A few of my staff and I will definitely want to tune in since this is an area of CA's inventory we're always looking to improve. I'll also connect with Dave Edwards who heads up ARB's GHG reporting group.

If you're available on Monday for a short call, I'd like to touch base.

Thanks,

Webster

WEBSTER TASAT, MANAGER

EMISSION INVENTORY ANALYSIS SECTION

CALIFORNIA AIR RESOURCES BOARD

1001 I STREET

P.O. Box 2815

SACRAMENTO, CA 95814

PHONE: 916.323.4950



After speaking with ERG on Friday, this is what I think is possible over the next 2 weeks.

The dates below keep us on the same schedule, but EPA and ERG will be reviewing the materials at the same time because ERG is unable to have everything through their review and updated by early next week.

It'd be good if you and Suzie W could get in touch with ERG to give them a sense of when you might be sending over comments on the memos/presentations.

Distribution, Processing, Transmission and Storage (3 presentations, 3 memos)

EPA to review draft presentations and memos this week (comments on presentations to ERG through Leif by Wednesday AM, comments on memos to ERG by next Friday)

ERG will complete presentations by next Friday 8/31.

ERG will begin review of memos week of 9/4. Revised drafts by 9/7.

Well counts (1 presentation, 1 memo)

ERG is developing memo and slides. ERG will not have completed well count numbers until next Thursday.

EPA to review very draft memo and slides, EPA will send comments to

ERG through Leif by Wednesday AM.

ERG memo complete by next Friday.

ERG slides complete by next Friday.

Liquids Unloading and Hydraulic Fracturing (2 presentations, 2 memos) ERG is completing memos and slides. First, well count data must be finalized, but memos in good shape otherwise, and we don't need well count numbers for the slides.

EPA to review draft memos and slides, send comments to ERG through Leif by Wednesday AM.

Other Production Sources

SAIC is revising memo and developing slides for Friday 8/31.

EPA to send comments on slides/presentations.

On 9/4 EPA can send both over to ERG for review.

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov



completions and workovers Melissa Weitz to: Minnucci, Chris A.

Cc: "Kidman, Timothy M.", Leif Hockstad

08/26/2012 11:22 PM

Hello.

I just realized that I and others at EPA had been reviewing an earlier version of the completions and workovers memo. I've attached below the version that I'd been working with. Could you please review the attachment and make the more recent edits (such as in the section on the emission factor) to the latest version you have? Could you also move over any new and relevant comment bubbles?

If you could send the revised version over to Leif by Tuesday, that would be great.

I'm also attaching below slides for SAIC completion on well completions and workovers. Please review the slides and add the information requested and send the slides over to Leif by Friday 8/31.

Thank you! Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

----- "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/14/2012 06:53PM

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Subject: RE: reductions data

Melissa,

Attached please find the second draft of the completions and workovers

paper. As we discussed today,

(b)(5) deliberative

Other than these two issues | believe we've addressed all the comments.

We look forward to receiving your comments on this draft.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/10/2012 6:18 PM

To: Minnucci, Chris A.

Subject: RE: reductions data

I'm out of the office Monday. How is Tuesday?

"Minnucci, Chris A." ---08/08/2012 08:02:43 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/08/2012 08:02 PM Subject: RE: reductions data

Melissa,

Friday afternoon is not good for me. How does Monday look for you?

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 5:53 PM

To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data

Hi,

I'm out of the office tomorrow, but I am available Friday afternoon. Would 4PM work?

Melissa

"Minnucci, Chris A." ---08/08/2012 05:45:12 PM---Melissa, Yes I would like to discuss this, please let me know when you might be available this week.

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data

Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

Chris

----Original Message-----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 4:40 PM To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: reductions data

Hello,

Attached below is the reductions data. Its format is not great...

To get data on the production sector, filter by BMP. The BMP's starting with "PROD" are the production activities.

The 4 PROD BMPs are below

BMP

PROD1 Identify and Replace High-Bleed Pneumatic Devices
PROD2 Install Flash Tank Separators on Glycol Dehydrators
PROD3 Partner Reported Opportunities (sort by activity name. includes artificial lifts, install flares (some of which are at completions), perform reduced emissions completions for hydraulically fractured gas wells)

PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

33

[attachment "Completion Workover Memo_08.13.12.docx" removed by Melissa Weitz/DC/USEPA/US]

(b)(5) deliberative

Completions and Workovers with HF 8.26 party (b)(5) deliberative

Completion Workover Memo_SAIC re-structure_v2 MW comments_ERG Comments.docx



Updated memos and presentations schedule Melissa Weitz to:

Cc: Leif Hockstad

08/26/2012 11:26 PM

The dates below keep us on the same schedule, but EPA and ERG will be reviewing the materials at the same time because ERG is unable to have everything through their review and updated by early next week.

It'd be good if you and Suzie W could get in touch with ERG to give them a sense of when you might be sending over comments on the memos/presentations.

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ERG memo complete by next Friday.

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SAIC is completing HF slides for Friday, and is revising the memo for Tuesday. The memo will then need to go to EPA for review and to ERG for further revisions.

EPA to review draft memos and slides, send comments to ERG through Leif by Wednesday AM.

Other Production Sources

SAIC is revising memo and developing slides for Friday 8/31.

EPA to send comments on slides/presentations.

On 9/4 EPA can send both over to ERG for review.

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov



Fw: liquids unloading

Melissa Weitz to: Bill Irving, Leif Hockstad, Suzanne Waltzer, Suzanne Kocchi

08/26/2012 11:46 PM

----Forwarded by Melissa Weitz/DC/USEPA/US on 08/26/2012

11:45PM ----

To: "Paula Fields" < Paula. Fields@erg.com>

From: Melissa Weitz/DC/USEPA/US

Date: 08/26/2012 09:30PM

Cc: Leif Hockstad/DC/USEPA/US@EPA

Subject: liquids unloading

(See attached file: Liquids unloading method change 2010 to

2011.doc)

(See attached file: Liquids Unloading Memo 8.26.docx)

(See attached file: Liquids Unloading 8.23.pptx)

Hi Paula,

Below is the memo on liquids unloading, the presentation, and also an older memo on the methodology change from 2010 to 2011 that should be useful.

For the presentation, there are some areas for ERG to fill in. As we discussed, we'd like to get the updated slides back to Leif by Friday. EPA will likely be sending comments on the slides over the course of the week.

On the memo, I made only a few minor changes from the last version you saw. I have 6 new comments/questions for ERG and they are in comment bubbles M2, M32, M35, M44, M46, and M73.

The memo on the methodology change will be useful for updating/editing slide 4.

Thanks. Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897

(b)(5) deliberative

Weitz.Melissa@epa.govLiquids unloading method change 2010 to 2011.doc

(b)(5) deliberative

(b)(5) deliberative

Liquids Unloading Memo_8.26.docx Liquids Unloading 8.23.pptx



RE: completions and workovers Minnucci, Chris A. to: Melissa Weitz Cc: "Kidman, Timothy M.", Leif Hockstad

08/27/2012 10:53 AM

History:

This message has been forwarded.

Melissa,

Ok, will work on these for Tuesday and Friday deliveries.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Sun 8/26/2012 11:22 PM

To: Minnucci, Chris A.

Cc: Kidman, Timothy M.; Leif Hockstad Subject: completions and workovers

Hello,

I just realized that I and others at EPA had been reviewing an earlier version of the completions and workovers memo. I've attached below the version that I'd been working with. Could you please review the attachment and make the more recent edits (such as in the section on the emission factor) to the latest version you have? Could you also move over any new and relevant comment bubbles?

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Thank you! Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

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To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com>

Date: 08/14/2012 06:53PM

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com>

Subject: RE: reductions data

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To: Melissa Weitz/DC/USEPA/US@EPA

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Date: 08/08/2012 05:45 PM Subject: RE: reductions data

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----Original Message----

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The 4 PROD BMPs are below

BMP

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PROD3 Partner Reported Opportunities (sort by activity name. includes artificial lifts, install flares (some of which are at completions), perform reduced emissions completions for hydraulically fractured gas

PRODAA Additional Accomplishments (has no reported emissions reductions

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Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)

[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

[attachment "Completion Workover Memo_08.13.12.docx" removed by Melissa Weitz/DC/USEPA/US]



= Image.1346037735646.gif



Re: liquids unloading Paula Fields to: Melissa Weitz

Cc: Leif Hockstad

History:

This message has been replied to and forwarded.

08/27/2012 11:32 AM

Thanks Melissa. We'll take care of responding to this memo, and addressing the other comments as we receive them from EPA. We'll get you the updated slides on all presentations by COB Friday.

I'm attaching a spreadsheet that lists our activities and deadlines for the memos and slides. If you & Leif have time, you might have a look to make sure I have everything planned accordingly.

Thanks, Paula

Paula G. Fields Principal Air Quality Engineer ERG 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593 Cell phone: 916-835-0341

Fax: 916-859-0185

>>>

From: Melissa Weitz < Weitz. Melissa @epamail.epa.gov>

To: "Paula Fields" < Paula. Fields@erg.com>

CC: Leif Hockstad < Hockstad.Leif@epamail.epa.gov >

Date: 8/26/2012 6:30 PM Subject: liquids unloading

Hi Paula.

Below is the memo on liquids unloading, the presentation, and also an older memo on the methodology change from 2010 to 2011 that should be useful.

For the presentation, there are some areas for ERG to fill in. As we discussed, we'd like to get the updated slides back to Leif by Friday. EPA will likely be sending comments on the slides over the course of the week.

On the memo, I made only a few minor changes from the last version you saw. I have 6 new comments/questions for ERG and

they are in comment bubbles M2, M32, M35, M44, M46, and M73.

The memo on the methodology change will be useful for updating/editing slide 4.

Thanks, Melissa

Melissa M. Weitz
U.S. Environmental Protection Agency
Climate Change Division
(202) 343-9897
Weitz:Melissa@epa.gov

(b)(5) deliberative

Workshop Prep Status 082412.xlsx



Fw: liquids unloading Suzanne Waltzer to: Paula.Fields

Cc: Leif Hockstad, Melissa Weitz

History:

This message has been forwarded.

Hi Paula,

I just wanted to send a quick note to introduce myself. I work with Melissa and Leif in the Climate Change Division. I have been helping with some of the planning for the oil and gas stakeholder workshop, in particular on the liquids unloading materials and I will be giving this presentation at the workshop. With Melissa out, I just wanted to offer that if you have any questions on Melissa's comments or the areas for ERG to fill in, please feel free to contact me at the number below or by email.

Thank you,

Suzie

(b)(5) deliberative

(b)(5) deliberative

Liquids unloading method change 2010 to 2011.doc Liquids Unloading Memo_8.26.docx (b)(5) deliberative

Liquids Unloading 8.23.pptx

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J)

Phone: 202-343-9544 Web: www.epa.gov/gasstar

----Forwarded by Melissa Weitz/DC/USEPA/US on 08/26/2012 11:45PM ----

To: "Paula Fields" < Paula. Fields@erg.com>

From: Melissa Weitz/DC/USEPA/US

Date: 08/26/2012 09:30PM

Cc: Leif Hockstad/DC/USEPA/US@EPA

Subject: liquids unloading

(See attached file: Liquids unloading method change 2010 to 2011.doc)

(See attached file: Liquids Unloading Memo_8.26.docx)

(See attached file: Liquids Unloading 8.23.pptx)

Hi Paula,

Below is the memo on liquids unloading, the presentation, and also an older memo on the methodology change from 2010 to 2011 that should be useful.

For the presentation, there are some areas for ERG to fill in. As we discussed, we'd like to get the updated slides back to Leif by Friday. EPA will likely be sending comments on the slides over the course of the week.

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08/27/2012 01:02 PM

The memo on the methodology change will be useful for updating/editing slide 4.

Thanks, Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897

(b)(5) del berative

Weitz.Melissa@epa.govLiquids unloading method change 2010 to 2011.doc

(b)(5) deliberative

(b)(5) deliberative

Liquids Unloading Memo_8.26.docx Liquids Unloading 8.23.pptx



Re: liquids unloading Paula Fields to: Melissa Weitz

Cc: Leif Hockstad

History:

This message has been forwarded.

Great, thanks!

Paula G. Fields
Principal Air Quality Engineer
ERG
10860 Gold Center Dr., #275
Rancho Cordova, CA 95670
Office phone: 916-635-6593

Cell phone: 916-835-0341

Fax: 916-859-0185

>>>

From: Melissa Weitz < Weitz. Melissa @epamail.epa.gov>

To: "Paula Fields" < Paula. Fields@erg.com>

CC: Leif Hockstad < Hockstad. Leif@epamail.epa.gov>

Date: 8/27/2012 10:04 AM Subject: Re: liquids unloading

This looks good Paula.

2 updates:

On workovers and completions: SAIC is combining two versions of the memos that we had comments on and will be sending it to Leif on Tuesday (to then send to you). SAIC will develop the slides for Friday.

On other production: SAIC will complete the memo and slides for Friday.

Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

-----"Paula Fields" <Paula.Fields@erg.com> wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Paula Fields" < Paula. Fields@erg.com>

Date: 08/27/2012 11:32AM

08/27/2012 01:25 PM

Cc: Leif Hockstad/DC/USEPA/US@EPA Subject: Re: liquids unloading

Thanks Melissa. We'll take care of responding to this memo, and addressing the other comments as we receive them from EPA. We'll get you the updated slides on all presentations by COB Friday.

I'm attaching a spreadsheet that lists our activities and deadlines for the memos and slides. If you & Leif have time, you might have a look to make sure I have everything planned accordingly.

Thanks, Paula

Paula G. Fields Principal Air Quality Engineer 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593 Cell phone: 916-835-0341 Fax: 916-859-0185

>>>

From: Melissa Weitz < Weitz. Melissa@epamail.epa.gov>

To: "Paula Fields" <Paula.Fields@erg.com>

CC: Leif Hockstad < Hockstad.Leif@epamail.epa.gov>

Date: 8/26/2012 6:30 PM Subject: liquids unloading

Hi Paula.

Below is the memo on liquids unloading, the presentation, and also an older memo on the methodology change from 2010 to 2011 that should be useful.

For the presentation, there are some areas for ERG to fill in. As we discussed, we'd like to get the updated slides back to Leif by Friday. EPA will likely be sending comments on the slides over the course of the week.

On the memo, I made only a few minor changes from the last version you saw. I have 6 new comments/questions for ERG and they are in comment bubbles M2, M32, M35, M44, M46, and M73.

The memo on the methodology change will be useful for updating/editing slide 4.

Thanks. Melissa Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

Ξ

[attachment "Workshop Prep Status_082412.xlsx" removed by Melissa Weitz/DC/USEPA/US]



Re: Fw: liquids unloading
Paula Fields to: Suzanne Waltzer
Cc: Leif Hockstad, Melissa Weitz, "Marty Wolf"

08/27/2012 01:31 PM

History:

This message has been forwarded.

Hi Suzie - thanks for the offer.

Marty Wolf of our team is working on the slides and memo for liquids unloading. He/we will let you know if we have any clarifying questions. We will send the memo with our responses along with a revision to the slides by COB on Friday.

-Paula

Paula G. Fields Principal Air Quality Engineer ERG 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593 Cell phone: 916-835-0341

Fax: 916-859-0185

>>>

From: Suzanne Waltzer < Waltzer. Suzanne@epamail.epa.gov>

To: <Paula.Fields@erg.com>

CC: Leif Hockstad < Hockstad.Leif@epamail.epa.gov>, Melissa

Weitz < Weitz. Melissa@epamail.epa.gov>

Date: 8/27/2012 10:03 AM Subject: Fw: liquids unloading

Hi Paula,

I just wanted to send a quick note to introduce myself. I work with Melissa and Leif in the Climate Change Division. I have been helping with some of the planning for the oil and gas stakeholder workshop, in particular on the liquids unloading materials and I will be giving this presentation at the workshop. With Melissa out, I just wanted to offer that if you have any questions on Melissa's comments or the areas for ERG to fill in, please feel free to contact me at the number below or by email.

Thank you,

Suzie

(See attached file: Liquids unloading method change 2010 to 2011.doc)(See attached file: Liquids Unloading Memo 8.26.docx) (See attached file: Liquids Unloading 8.23.pptx)

Suzie Waltzer Natural Gas STAR Program U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW (6207J) Phone: 202-343-9544

Web: www.epa.gov/gasstar

-----Forwarded by Melissa Weitz/DC/USEPA/US on 08/26/2012

11:45PM ----

To: "Paula Fields" < Paula. Fields@erg.com>

From: Melissa Weitz/DC/USEPA/US

Date: 08/26/2012 09:30PM

Cc: Leif Hockstad/DC/USEPA/US@EPA

Subject: liquids unloading

(See attached file: Liquids unloading method change 2010 to

2011.doc)

(See attached file: Liquids Unloading Memo 8.26.docx)

(See attached file: Liquids Unloading 8.23.pptx)

Hi Paula,

Below is the memo on liquids unloading, the presentation, and also an older memo on the methodology change from 2010 to 2011 that should be useful.

For the presentation, there are some areas for ERG to fill in. As we discussed, we'd like to get the updated slides back to Leif by Friday. EPA will likely be sending comments on the slides over the course of the week.

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The memo on the methodology change will be useful for updating/editing slide 4.

Thanks, Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov(See attached file: Liquids unloading method change 2010 to 2011.doc)(See attached file: Liquids Unloading Memo_8.26.docx)(See attached file: Liquids Unloading 8.23.pptx)



Re: liquids unloading - question Paula Fields to: Melissa Weitz

Cc: Leif Hockstad

History:

This message has been forwarded.

OK, thanks.

Paula G. Fields Principal Air Quality Engineer ERG 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593

Cell phone: 916-835-0341

Fax: 916-859-0185

>>>

From: Melissa Weitz < Weitz. Melissa @epamail.epa.gov>

To: "Paula Fields" < Paula. Fields@erg.com>

CC: Leif Hockstad < Hockstad. Leif@epamail.epa.gov>

Date: 8/27/2012 2:00 PM

Subject: Re: liquids unloading - question

Hi.

Yes, we'll send them to you Friday or early the next week to review them.

Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

-----"Paula Fields" <Paula.Fields@erg.com> wrote; -----

To: Melissa Weitz/DC/USEPA/US@EPA From: "Paula Fields" <Paula.Fields@erg.com>

Date: 08/27/2012 01:33PM

Cc: Leif Hockstad/DC/USEPA/US@EPA Subject: Re: liquids unloading - question

Melissa/Leif -

Please clarify: After SAIC develops the slides on Friday (workovers/completions, other production) will ERG will be expected

08/27/2012 05:17 PM

to comment?

Thanks, Paula

Paula G. Fields Principal Air Quality Engineer ERG 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593 Cell phone: 916-835-0341 Fax: 916-859-0185

>>>

From: Melissa Weitz < Weitz. Melissa @epamail.epa.gov >

To: "Paula Fields" < Paula. Fields@erg.com>

CC: Leif Hockstad < Hockstad. Leif@epamail.epa.gov>

Date: 8/27/2012 10:04 AM Subject: Re: liquids unloading

This looks good Paula.

2 updates:

On workovers and completions: SAIC is combining two versions of the memos that we had comments on and will be sending it to Leif on Tuesday (to then send to you). SAIC will develop the slides for Friday.

On other production: SAIC will complete the memo and slides for Friday.

Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

-----"Paula Fields" < Paula. Fields@erg.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Paula Fields" < Paula. Fields@erg.com>

Date: 08/27/2012 11:32AM

Cc: Leif Hockstad/DC/USEPA/US@EPA

Subject: Re: liquids unloading

Thanks Melissa. We'll take care of responding to this memo, and addressing the other comments as we receive them from EPA.

We'll get you the updated slides on all presentations by COB Friday.

I'm attaching a spreadsheet that lists our activities and deadlines for the memos and slides. If you & Leif have time, you might have a look to make sure I have everything planned accordingly.

Thanks, Paula

>>>

Paula G. Fields Principal Air Quality Engineer ERG 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593 Cell phone: 916-835-0341 Fax: 916-859-0185

From: Melissa Weitz < Weitz. Melissa @epamail.epa.gov >

To: "Paula Fields" < Paula. Fields@erg.com>

CC: Leif Hockstad < Hockstad. Leif@epamail.epa.gov>

Date: 8/26/2012 6:30 PM Subject: liquids unloading

Hi Paula,

Below is the memo on liquids unloading, the presentation, and also an older memo on the methodology change from 2010 to 2011 that should be useful.

For the presentation, there are some areas for ERG to fill in. As we discussed, we'd like to get the updated slides back to Leif by Friday. EPA will likely be sending comments on the slides over the course of the week.

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The memo on the methodology change will be useful for updating/editing slide 4.

Thanks, Melissa

Melissa M. Weitz

U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

[attachment "Workshop Prep Status_082412.xlsx" removed by Melissa Weitz/DC/USEPA/US]



FW: completions and workovers Minnucci, Chris A. to: Leif Hockstad Cc: Melissa Weitz, "Kidman, Timothy M."

08/28/2012 09:27 AM

History:

This message has been forwarded.

Leif,

As per Melissa's request in her e-mail on Sunday, attached please find the up-to-date version of the completions and workovers paper, with the most recent track changes and comments provided by EPA incorporated into it. We have not as yet addressed the comments, and we're unsure whether we can start to address them now, or should we wait for further comments from EPA?

Please also see Tim's e-mail below for further details on how we handled the track changes.

thanks, Chris

From: Kidman, Timothy M. Sent: Mon 8/27/2012 5:48 PM

To: Minnucci, Chris A.

Subject: RE: completions and workovers

Chris,

Attached is the version with the latest comments (though not addressed). For edits, I just incorporated them without track changes as we'd done with Melissa's previous track changes. The comments I've dropped in where appropriate. Have a good night.

Tim

Tim Kidman | SAIC Climate Change Analyst Energy, Environment & Infrastructure Solutions phone: 626.993.8872

Energy | Environment | National Security | Health | Critical Infrastructure

Please consider the environment before printing this email.

From: Minnucci, Chris A.

Sent: Monday, August 27, 2012 4:13 PM

To: Kidman, Timothy M.

Subject: RE: completions and workovers

Tim,

I don't think it exists yet. They plan to pull the material in the well completions/workovers and/or liquids unloading papers dealing with well counts out and create a separate paper out of it. But to my knowledge they haven't done it yet, nor have they asked us to do it yet.

Chris

From: Kidman, Timothy M. Sent: Mon 8/27/2012 2:12 PM

To: Minnucci, Chris A.

Subject: RE: completions and workovers

Chris,

Comments JG4, JG9, M10, and JG11, and possibly others in the version Melissa sent refer to the existence of another memo specifically on well counts. Do you know anything about that memo?

Tim

Tim Kidman | SAIC Climate Change Analyst Energy, Environment & Infrastructure Solutions phone: 626.993.8872

Energy | Environment | National Security | Health | Critical Infrastructure

Please consider the environment before printing this email.

From: Minnucci, Chris A.

Sent: Monday, August 27, 2012 1:44 PM

To: Kidman, Timothy M.

Subject: RE: completions and workovers

Tim,

That makes sense on the paper. Not sure about the crosswalks though, I'll see how she does on her own ones. Anyway the crosswalks don't have the same urgency as the papers and presentations, so am not as concerned if we don't get to them till later.

Chris

From: Kidman, Timothy M. Sent: Mon 8/27/2012 12:37 PM

To: Minnucci, Chris A.

Subject: RE: completions and workovers

Chris, I think because the paper has been shifted around and

re-structured between these two versions it would be tough for Emily to make sense of coming in cold. Maybe she could pick up the crosswalks though? My progress so far is attached.

Thanks, Tim

Tim Kidman | SAIC Climate Change Analyst Energy, Environment & Infrastructure Solutions phone: 626.993.8872

Energy | Environment | National Security | Health | Critical Infrastructure

Please consider the environment before printing this email.

From: Minnucci, Chris A.

Sent: Monday, August 27, 2012 10:51 AM

To: Kidman, Timothy M.

Subject: RE: completions and workovers

Thanks much Tim. One other thought I had on the paper--Emily should be able to help if you need it. Let me know if you'd like me to get her help.

Chris

From: Kidman, Timothy M. Sent: Mon 8/27/2012 9:57 AM

To: Minnucci, Chris A.

Subject: RE: completions and workovers

Ha, a mess indeed!

I'll start right in on the paper and send it your way once I'm finished. I only just skimmed the comments, but hopefully there are no real big surprises there. And the slides shouldn't be a problem by Friday.

Tim

Tim Kidman | SAIC Climate Change Analyst Energy, Environment & Infrastructure Solutions

phone: 626.993.8872

Energy | Environment | National Security | Health | Critical Infrastructure

Please consider the environment before printing this email.

-----Original Message-----From: Minnucci, Chris A.

Sent: Monday, August 27, 2012 9:14 AM

To: Kidman, Timothy M.

Subject: FW: completions and workovers

Tim,

What a mess. Do you have time to sort out the two papers and transfer the EPA edits and comments to the new paper? My interpretation of the e-mail below is that we only have to transfer EPA's and ERG's track changes and comment bubbles to the up-to-date paper by Tuesday, we don't have to address their new comments by then. Let me know if you disagree.

I've attached the latest version of the paper (dated August 13) in case you don't have it.

Then, if you could work on the presentation for the Friday due date that would be great. And then, circle back and begin addressing the new comments on the paper (no sense waiting till we get it back again). All this takes priority over the crosswalk.

Let me know if this all looks doable.

Thanks, Chris

----Original Message-----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Sun 8/26/2012 11:22 PM

To: Minnucci, Chris A.

Cc: Kidman, Timothy M.; Leif Hockstad Subject: completions and workovers

Hello,

I just realized that I and others at EPA had been reviewing an earlier version of the completions and workovers memo. I've attached below the version that I'd been working with. Could you please review the attachment and make the more recent edits (such as in the section on the emission factor) to the latest version you have? Could you also move over any new and relevant comment bubbles?

If you could send the revised version over to Leif by Tuesday, that would be great.

I'm also attaching below slides for SAIC completion on well completions and workovers. Please review the slides and add the information requested and send the slides over to Leif by Friday 8/31.

Thank you! Melissa

Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

----"Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com> <

mailto:CHRIS.A.MINNUCCI@saic.com> wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com> <

mailto:CHRIS.A.MINNUCCI@saic.com>

Date: 08/14/2012 06:53PM

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com> <

mailto:TIMOTHY.M.KIDMAN@saic.com>

Subject: RE: reductions data

Melissa,

Attached please find the second draft of the completions and workovers paper.

As we discussed today,

(b)(5) deliberative

Other than these two issues I believe

we've addressed all the comments.

We look forward to receiving your comments on this draft.

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Fri 8/10/2012 6:18 PM To: Minnucci, Chris A. Subject: RE: reductions data

I'm out of the office Monday. How is Tuesday?

Inactive hide details for "Minnucci, Chris A." ---08/08/2012 08:02:43 PM---Melissa, https://mclmail.saic.com/exchange/minnuccic/Drafts/graycol.gif "Minnucci, Chris A." ---08/08/2012 08:02:43 PM---Melissa,

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > <

mailto:CHRIS.A.MINNUCCI@saic.com>
To: Melissa Weitz/DC/USEPA/US@EPA

Date: 08/08/2012 08:02 PM Subject: RE: reductions data

Melissa,

Friday afternoon is not good for me. How does Monday look for you?

Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Wed 8/8/2012 5:53 PM To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data

Hi,

I'm out of the office tomorrow, but I am available Friday afternoon. Would 4PM work?

Melissa

"Minnucci, Chris A." ---08/08/2012 05:45:12 PM---Melissa, Yes I would like to discuss this, please let me know when you might be available this week.

From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > <

mailto:CHRIS.A.MINNUCCI@saic.com>
To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com> <

mailto:TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

Chris

----Original Message----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov <

mailto:Weitz.Melissa@epamail.epa.gov>]

Sent: Wed 8/8/2012 4:40 PM To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: reductions data

Hello,

Attached below is the reductions data. Its format is not great...

To get data on the production sector, filter by BMP. The BMP's starting with "PROD" are the production activities.

The 4 PROD BMPs are below

BMP

PROD1 Identify and Replace High-Bleed Pneumatic Devices
PROD2 Install Flash Tank Separators on Glycol Dehydrators
PROD3 Partner Reported Opportunities (sort by activity name. includes artificial lifts, install flares (some of which are at completions),
perform reduced emissions completions for hydraulically fractured gas wells)

PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)
[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

[attachment "Completion Workover Memo_08.13.12.docx" removed by Melissa Weitz/DC/USEPA/US]

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(b)(5) deliberative

Completion Workover Memo_08.27.12.docx

Re: draft work plan and well counts memo

Leif Hockstad to: Paula Fields

Cc: Melissa Weitz

History:

This message has been forwarded.

Paula -

I know you are currently working on these memos, but I shared the draft with Melissa's comments. Here are some additional comments, I think mostly on the clarification side.

Suzie Waltzer, who provided the comments, agreed that focusing on Melissa's comments and the construct of the memo is the first priority, but to share these comments as they help your formulation.

Thanks, Leif



Well Counts Memo-ERG.2012.08.24 SW.docx

"Paula Fields" OK, thanks. We'll be ready to discuss at 10 a... 08/24/2012 09:27:45 AM

From: "Paula Fields" <Paula.Fields@erg.com>
To: Melissa Weitz/DC/USEPA/US@EPA
Cc: Leif Hockstad/DC/USEPA/US@EPA

Date: 08/24/2012 09:27 AM

Subject: Re: draft work plan and well counts memo

OK, thanks. We'll be ready to discuss at 10 am your time.

-Paula

Paula G. Fields Principal Air Quality Engineer Eastern Research Group, Inc. (ERG) 10860 Gold Center Dr., Suite #275 Rancho Cordova, CA 95670

office: 916-635-6593 cell: 916-835-0341 fax: 916-859-0185

>>> Melissa Weitz 08/23/12 9:25 PM >>> Thanks Paula.

My comments on the well counts memo are in the attachment.

Melissa

Melissa M. Weitz

08/28/2012 10:10 AM

U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov

----- "Paula Fields" < Paula. Fields@erg.com > wrote: -----

To: Melissa Weitz/DC/USEPA/US@EPA

From: "Paula Fields" < Paula. Fields@erg.com>

Date: 08/23/2012 04:20PM

Cc: "Casey MacQueen" <a href="mailto: Cc: "Casey MacQueen@erg.com, "Jessica Gray" Jessica.Gray@erg.com,

"Marty Wolf" < Marty. Wolf@erg.com>

Subject: draft work plan and well counts memo

Hi Melissa -

I'm sending you the draft work plan and ERG's initial well counts memo. A little later today I'll send our comments on the well completions/workovers and liquids unloading memos.

Please let me know if you have any questions.

Thanks, -Paula

Paula G. Fields
Principal Air Quality Engineer
ERG
10860 Gold Center Dr., #275
Rancho Cordova, CA 95670
Office phone: 916-635-6593
Cell phone: 916-835-0341
Fax: 916-859-0185

[attachment "ERG_Draft Work Plan_GHGEI for NG and Petroleum Sys_082312.pdf" removed by Melissa Weitz/DC/USEPA/US] [attachment "Well Counts Memo-ERG.2012.08.23.docx" removed by Melissa Weitz/DC/USEPA/US]

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RE: completions and workovers Minnucci, Chris A. to: Leif Hockstad Cc: Melissa Weitz, "Kidman, Timothy M."

08/28/2012 10:30 AM

History:

This message has been forwarded.

Leif,

did have one other question related to the completions and workovers paper.

(b)(5) deliberative

(b)(5) deliberative

thanks, Chris

From: Minnucci, Chris A. Sent: Tue 8/28/2012 9:19 AM To: Hockstad.Leif@epamail.epa.gov

Cc: Weitz.Melissa@epamail.epa.gov; Kidman, Timothy M.

Subject: FW: completions and workovers

Leif,

As per Melissa's request in her e-mail on Sunday, attached please find the up-to-date version of the completions and workovers paper, with the most recent track changes and comments provided by EPA incorporated into it. We have not as yet addressed the comments, and we're unsure whether we can start to address them now, or should we wait for further comments from EPA?

Please also see Tim's e-mail below for further details on how we handled the track changes.

thanks, Chris

From: Kidman, Timothy M. Sent: Mon 8/27/2012 5:48 PM

To: Minnucci, Chris A.

Subject: RE: completions and workovers

Chris,

Attached is the version with the latest comments (though not addressed). For edits, I just incorporated them without track changes as we'd done with Melissa's previous track changes. The comments I've dropped in where appropriate. Have a good night.

Tim

Tim Kidman | SAIC Climate Change Analyst Energy, Environment & Infrastructure Solutions phone: 626.993.8872

Energy | Environment | National Security | Health | Critical Infrastructure

Please consider the environment before printing this email.

From: Minnucci, Chris A.

Sent: Monday, August 27, 2012 4:13 PM

To: Kidman, Timothy M.

Subject: RE: completions and workovers

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From: Kidman, Timothy M. Sent: Mon 8/27/2012 2:12 PM

To: Minnucci, Chris A.

Subject: RE: completions and workovers

Chris,

Comments JG4, JG9, M10, and JG11, and possibly others in the version Melissa sent refer to the existence of another memo specifically on well counts. Do you know anything about that memo?

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I'll start right in on the paper and send it your way once I'm finished. I only just skimmed the comments, but hopefully there are no real big surprises there. And the slides shouldn't be a problem by Friday.

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Let me know if this all looks doable.

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I'm also attaching below slides for SAIC completion on well completions and workovers. Please review the slides and add the information requested and send the slides over to Leif by Friday 8/31.

Thank you! Melissa

Melissa M. Weitz
U.S. Environmental Protection Agency
Climate Change Division
(202) 343-9897
Weitz.Melissa@epa.gov

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Date: 08/14/2012 06:53PM

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Subject: RE: reductions data

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As we discussed today,

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We look forward to receiving your comments on this draft.
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To: Minnucci, Chris A. Cc: Kidman, Timothy M. Subject: RE: reductions data Hi,

I'm out of the office tomorrow, but I am available Friday afternoon. Would 4PM work?

Melissa

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From: "Minnucci, Chris A." < CHRIS.A.MINNUCCI@saic.com > <

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To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com> <

mailto:TIMOTHY.M.KIDMAN@saic.com>

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perform reduced emissions completions for hydraulically fractured gas wells)

PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks! Melissa

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)
[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

[attachment "Completion Workover Memo_08.13.12.docx" removed by Melissa Weitz/DC/USEPA/US]

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Re: draft work plan and well counts memo

Paula Fields to: Leif Hockstad

Cc: Melissa Weitz

History:

This message has been forwarded.

OK, Leif, thanks. -Paula

Paula G. Fields Principal Air Quality Engineer ERG 10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593

Cell phone: 916-835-0341 Fax: 916-859-0185

>>>

From: Leif Hockstad < Hockstad. Leif@epamail.epa.gov>

To: "Paula Fields" < Paula. Fields@erg.com>

CC: Melissa Weitz < Weitz. Melissa@epamail.epa.gov>

Date: 8/28/2012 7:11 AM

Subject: Re: draft work plan and well counts memo

Paula -

I know you are currently working on these memos, but I shared the draft with Melissa's comments. Here are some additional comments, I think mostly on the clarification side.

Suzie Waltzer, who provided the comments, agreed that focusing on Melissa's comments and the construct of the memo is the first priority, but to share these comments as they help your formulation.

Thanks, Leif

(See attached file: Well Counts Memo-ERG.2012.08.24_SW.docx)

"Paula Fields" ---08/24/2012 09:27:45 AM---OK, thanks. We'll be ready to discuss at 10 am your time. -Paula

From: "Paula Fields" <Paula.Fields@erg.com>
To: Melissa Weitz/DC/USEPA/US@EPA
Cc: Leif Hockstad/DC/USEPA/US@EPA

Date: 08/24/2012 09:27 AM

08/28/2012 12:15 PM

Subject: Re: draft work plan and well counts memo OK, thanks. We'll be ready to discuss at 10 am your time. -Paula ******** Paula G. Fields Principal Air Quality Engineer Eastern Research Group, Inc. (ERG) 10860 Gold Center Dr., Suite #275 Rancho Cordova, CA 95670 office: 916-635-6593 cell: 916-835-0341 fax: 916-859-0185 >>> Melissa Weitz 08/23/12 9:25 PM >>> Thanks Paula. My comments on the well counts memo are in the attachment. Melissa Melissa M. Weitz U.S. Environmental Protection Agency Climate Change Division (202) 343-9897 Weitz.Melissa@epa.gov -----"Paula Fields" < Paula. Fields@erg.com > wrote: -----To: Melissa Weitz/DC/USEPA/US@EPA From: "Paula Fields" < Paula Fields@erg.com> Date: 08/23/2012 04:20PM Cc: "Casey MacQueen" < Casey. MacQueen@erg.com>, "Jessica Gray" < Jessica. Gray@erg.com>, "Marty Wolf" <Marty.Wolf@erg.com> Subject: draft work plan and well counts memo Hi Melissa -I'm sending you the draft work plan and ERG's initial well counts memo. A little later today I'll send our comments on the well completions/workovers and liquids unloading memos. Please let me know if you have any questions. Thanks. -Paula Paula G. Fields

Principal Air Quality Engineer

ERG

10860 Gold Center Dr., #275 Rancho Cordova, CA 95670 Office phone: 916-635-6593 Cell phone: 916-835-0341

Fax: 916-859-0185

[attachment "ERG_Draft Work Plan_GHGEI for NG and Petroleum Sys_082312.pdf" removed by Melissa Weitz/DC/USEPA/US] [attachment "Well Counts Memo-ERG.2012.08.23.docx" removed by Melissa Weitz/DC/USEPA/US]

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RE: completions and workovers Minnucci, Chris A. to: Melissa Weitz Cc: "Kidman, Timothy M.", Leif Hockstad

08/28/2012 04:06 PM

History:

This message has been forwarded.

Leif,

Attached is the second version of the paper, which addresses the new comments received from Melissa on Sunday. There are a few that were not addressed, either (1) because SAIC does not have access to the data required to address them (e.g., HPDI), (2) because they were addressed internally to EPA, or (3) they do not require any action. SAIC has added our responses inside the comment bubbles to those comments that might require some action.

Note that we went ahead and addressed the comments on the section on well counts so that the contractor working on the well counts paper will have a completed section to incorporate into that paper. We have not yet deleted this section from the completions and workovers paper, and will not do so till we have word that it has been moved over to the other paper.

Please let me know if you have any questions or comments on the attached.

thanks, Chris

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov]

Sent: Sun 8/26/2012 11:22 PM

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= Image.1346037735646.gif (b)(5) deliberative

Completion Workover Memo_08.27.12_comments addressed.docx



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Cc: Melissa Weitz, "Kidman, Timothy M.", "Richards, Richard Y."

History:

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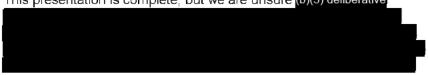
1. The up-to-date version of the Other Production Sources paper, with EPA's comments addressed. This paper is complete with the exception of the reduction estimates (waiting for guidance from ERG on how to

(b)(5) deliberative

2. The Power Point Presentation on Other Production Sources. This presentation is complete with the exception of reduction and emission estimates for Shallow Water Offshore Platforms. (b)(5) deliberative



The Power Point Presentation for Well Completions and Workovers.
 This presentation is complete, but we are unsure (b)(5) deliberative



Please let me know if you have any questions on the attached, or would like further information.

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To: Melissa Weitz/DC/USEPA/US@EPA

Cc: "Kidman, Timothy M." <TIMOTHY.M.KIDMAN@saic.com> <

mailto:TIMOTHY.M.KIDMAN@saic.com>

Date: 08/08/2012 05:45 PM Subject: RE: reductions data

Melissa,

Yes I would like to discuss this, please let me know when you might be available this week.

Chris

----Original Message----

From: Melissa Weitz [mailto:Weitz.Melissa@epamail.epa.gov <

mailto:Weitz.Melissa@epamail.epa.gov>]

Sent: Wed 8/8/2012 4:40 PM To: Minnucci, Chris A.

Cc: Kidman, Timothy M. Subject: reductions data

Hello,

Attached below is the reductions data. Its format is not great...

To get data on the production sector, filter by BMP. The BMP's starting with "PROD" are the production activities.

The 4 PROD BMPs are below

BMP

wells)

PROD1 Identify and Replace High-Bleed Pneumatic Devices
PROD2 Install Flash Tank Separators on Glycol Dehydrators
PROD3 Partner Reported Opportunities (sort by activity name. includes artificial lifts, install flares (some of which are at completions),
perform reduced emissions completions for hydraulically fractured gas

PRODAA Additional Accomplishments (has no reported emissions reductions

I've deleted the company name column, but the company names may appear in more than one place.

Please do not share this data.

For the stakeholder workshop memos, you'll need to sort through the data to aggregate it by activity for each year.

Let me know if you'd like to discuss this once you take a look at the spreadsheet.

Thanks!

Melissa

Weitz/DC/USEPA/US]

(See attached file: Excel862012155416 1_reductions to 2011 for SAIC.xlsx)
[attachment "graycol.gif" deleted by Melissa Weitz/DC/USEPA/US]

[attachment "Completion Workover Memo 08.13.12.docx" removed by Melissa

(b)(5) deliberative

OtherSources v15.docx Other Production 8 31 saic.pptx

(b)(5) deliberative

Completions and Workovers with HF 8 31.pptx



Well Counts Data

Jessica Gray to: Mark DeFigueiredo, Leif Hockstad, Suzanne Waltzer, Melissa Weitz

Cc: "Marty Wolf", "Paula Fields"

History:

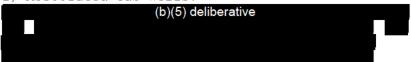
This message has been forwarded.

All,

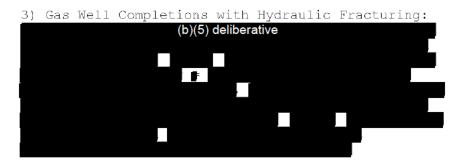
Attached is an Excel file that includes the well counts data for associated gas wells, non-associated gas wells, gas wells with hydraulic fracturing, and gas well completions with hydraulic fracturing. Each worksheet includes the counts from the 2011 Inventory and the proposed update using HPDI for 1990, 1995, 2000, 2005, and 2010 to match the tables in the methodology memos. We will deliver the well counts memo and presentation that includes the detailed methodology on Tuesday, 9/4. We will deliver the well counts that support the liquid unloading memo next week.

We would like to point out the following notes about why the well counts are different from the current methodology (these notes will also be in the Well Counts Memo):

1) Associated Gas Wells:



2) Gas Wells with Hydraulic Fracturing:
(b)(5) deliberative



Please let us know if you have any questions or comments.

Thanks,

08/31/2012 05:28 PM

Jess

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Gas Well Counts.2012.08.31.xlsx